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ROOT'S PLANTING GUIDE

U. S. GOVERNMENT
July 29, 1933
U. S. Department of Agriculture



MANHEIM
LANCASTER COUNTY, PENNA.

1933

OUR 39th YEAR

Our Message for 1933

This is our thirty-ninth year in the nursery business, and never in our history has competition in all lines of business been so keen.

Because the economic conditions have led many people to buy on price only, we are giving six reasons why we solicit your business.

1. Quality has been maintained in both our fruit and ornamental stock.
2. Our service is complete and uncrippled by economic conditions.
3. Our stock is not run down or overgrown, has been properly sheared, transplanted and kept free from weeds, diseases and insects.
4. Efficient trained help to dig your stock and plant it when so desired.
5. Complete Landscape Service including planning, grading, planting, etc.
6. Prices lowest in years.

ROOT'S NURSERIES, Inc.

J. W. Root, Pres. & Treas.; B. R. KREIDER, Vice-Pres.;
C. K. Root, Sec.

Established—1895
Incorporated—1920

WHAT YOU WILL FIND IN THIS CATALOG

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When ordering, use handy Env-O-Blank. No postage required.

TELEPHONE—LANDISVILLE 163-R-2

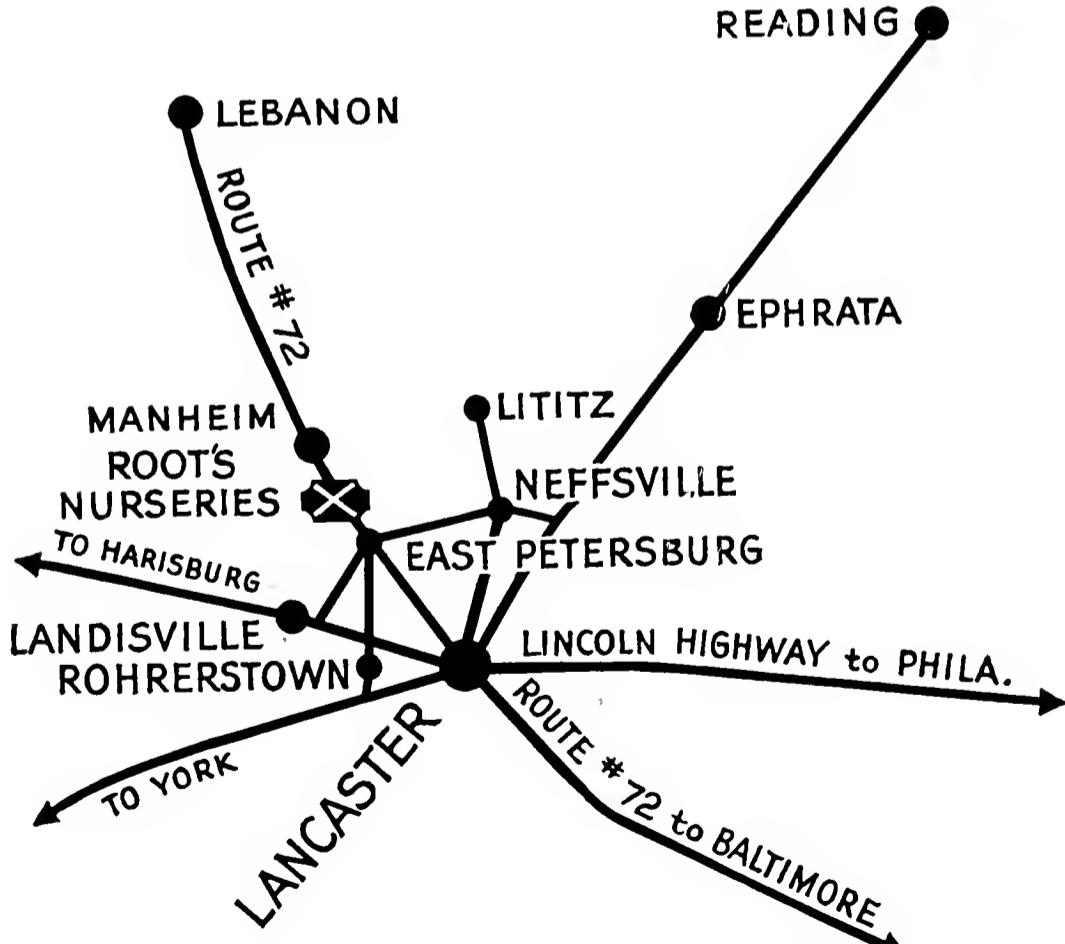


Entrance to our office and display grounds.

AN INVITATION TO VISIT OUR NURSERIES

We invite everyone interested in trees and plants to visit our Nurseries, which are conveniently located on Route 72, or the Lancaster-Manheim-Lebanon Highway, which passes through our Nurseries.

Whether you are traveling South from Manheim or North from East Petersburg on this road, you cannot miss our signs placed on the side to the East. After you see one of these signs you will be directed by other signs to the office and display grounds.



If you are not acquainted with the location of our Nurseries, a little study of the above map will help you to get to us very easily. There will be someone in attendance during daylight hours on week days.

No business transacted on Sundays.

ROOT'S NURSERIES, INC.

EVERGREENS



One of our Highway Signs

These Evergreens have been transplanted frequently. Each time they have been given ample room for proper growth and are sheared each season into a symmetrical shape. They are freshly dug in the nursery for your individual order, balled and burlapped.

Most of the following varieties (including Mugho Pine) may be trimmed and used for Foundation planting, etc. However, the Abies or Firs, the Piceas or Spruces, and the Pinus or Pines grow large and should be used for specimens, screens or for massing where there is plenty of room for them to develop.

ABIES—FIR

Abies balsamea, 60'-70'

BALSAM FIR

Each

15 to 18 in.....	\$2.00
18 to 24 in.....	2.50

Abies concolor, 70'-80'

WHITE FIR

Grows quickly and forms symmetrical, beautiful specimen. Large, gray-green needles.

18 to 24 in.....	\$3.00
2 to 3 ft.....	5.00
3 to 4 ft.....	7.00
4 to 5 ft.....	10.00

CHAMAECYPARIS—RETINOSPORA

Chamaecyparis obtusa compacta, 2½'-4' FOOTBALL CYPRESS

Almost spherical in shape. Good green throughout winter. Very useful in foundation or formal work.

Each

15 to 18 in.....	\$1.25
18 to 24 in.....	1.75

Chamaecyparis pisifera, 25'-35' SAWARA RETINOSPORA

Quick grower. Loosely pyramidal.

18 to 24 in.....	\$1.25
2 to 2½ ft.....	1.75
2½ to 3 ft.....	2.50
3 to 4 ft.....	3.50



Evergreens For The Small Place, by F. F. Rockwell. All the information you need to make the best use of evergreens is in this handy book, written by one who is himself a home owner and a garden maker. It tells the uses, characteristics, and types of small or dwarf evergreens, and details of their planting, transplanting, and general care. 67 illustrations, 84 pages....\$1.00

Figures at right of scientific name denote ultimate height.

MANHEIM, PENNSYLVANIA

Chamaecyparis pisifera aurea, 25'-35'

GOLDEN SAWARA RETINOSPORA

Foliage bright yellow, especially in spring.	Each
18 to 24 in.....	\$1.25
2 to 2½ ft.....	1.75
2½ to 3 ft.....	2.50
3 to 4 ft.....	3.50

Chamaecyparis pisifera filifera, 15'-20'

THREAD RETINOSPORA

Has long, stringy, drooping branches and bright green foliage. Graceful and decorative.

12 to 15 in.....	\$0.75
15 to 18 in.....	1.25
18 to 24 in.....	1.75

Chamaecyparis pisifera filifera aurea, 10'-12'

GOLDEN THREAD RETINOSPORA

Very bright, conspicuous, golden yellow. Grows more slowly than preceding.

12 to 15 in.....	\$1.50
15 to 18 in.....	2.50

Chamaecyparis pisifera plumosa, 25'-35'

PLUME RETINOSPORA

Forms a dense cone of fine texture. Useful for shearing into formal shapes.

15 to 18 in.....	\$0.75
18 to 24 in.....	1.25
2 to 2½ ft.....	1.50
2½ to 3 ft.....	2.50
3 to 4 ft.....	3.50

Chamaecyparis pisifera plumosa aurea, 20'-25'

GOLDENPLUME RETINOSPORA

Golden form of preceding, and grows more slowly.

12 to 15 in.....	\$0.75
15 to 18 in.....	1.00
18 to 24 in.....	1.50
2 to 2½ ft.....	2.00

Chamaecyparis pisifera plumosa lutescens, 2½'-3'

DWARF YELLOW PLUME RETINOSPORA

Forms a low, broad, round-topped bush; bright yellow tipped branchlets.

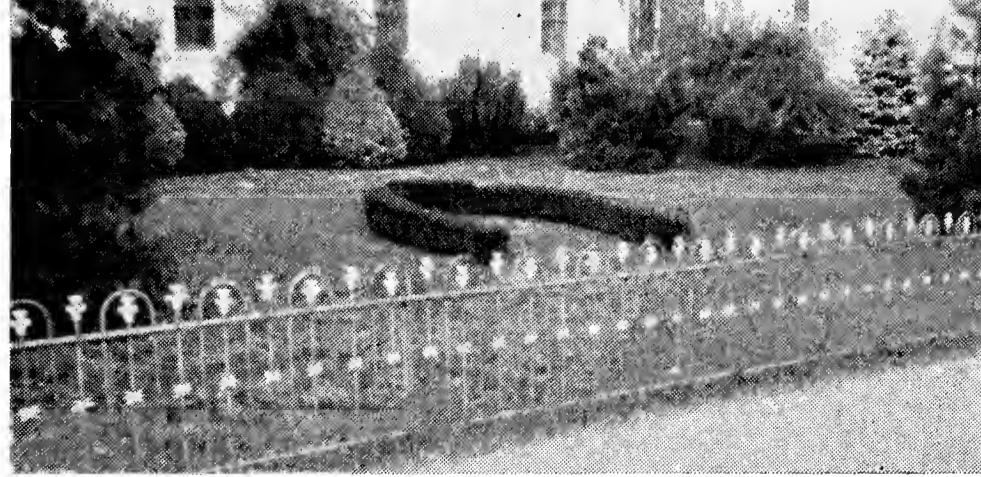
9 to 12 in.....	\$0.75
12 to 15 in.....	1.00

Chamaecyparis pisifera squarrosa, 25'-30'

MOSS RETINOSPORA

Foliage blue-gray, feathery and dense, giving soft wooly appearance. Broad pyramidal outline when young.

12 to 15 in.....	\$0.75
15 to 18 in.....	1.00
18 to 24 in.....	1.50
2 to 2½ ft.....	2.00



One of our plantings on the grounds of the Leber Sales & Exchange Stable, Ephrata, Pa.

Figures at right of scientific name denote ultimate height.

ROOT'S NURSERIES, INC.

JUNIPERUS—JUNIPER

Juniperus chinensis, 15'-20'

CHINESE JUNIPER

A very hardy, bushy and pyramidal growing variety. Bears small berries of violet-brown color when ripe. Each	
2½ to 3 ft.....	\$4.00
3 to 4 ft.....	5.00
4 to 5 ft.....	6.00

Juniperus chinensis albo variegata, 6'-7'

WHITELEAF CHINESE JUNIPER

Light bluish foliage intermingled with cream colored branches making a very distinctive plant of formal pyramidal shape.

15 to 18 in.....	\$1.50
18 to 24 in.....	2.50
2 to 2½ ft.....	3.00

Juniperus chinensis pyramidalis, 15'-20'

COLUMN CHINESE JUNIPER

Grows rapidly, forming tall narrow column of gray-green foliage. Spire-like effect. Very useful in evergreen planting.

2½ to 3 ft.....	\$3.50
3 to 4 ft.....	5.00

Juniperus chinensis pfitzeriana, 5'-6' PFITZER JUNIPER

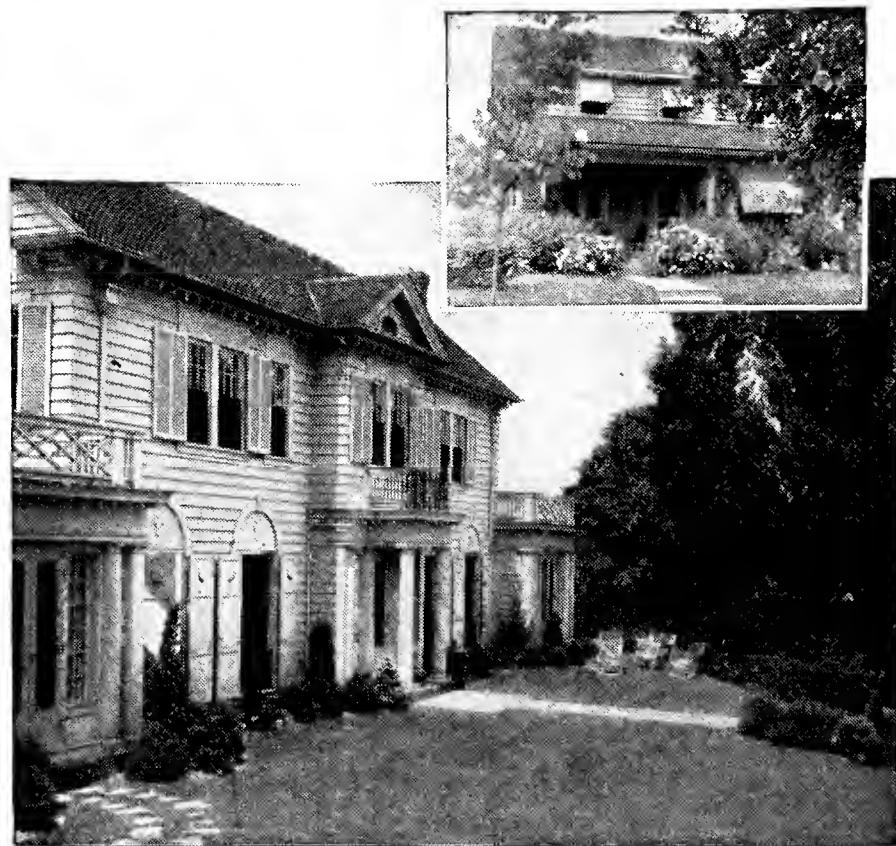
Broad, bushy habit. Gray-green foliage, giving feathery appearance. A most adaptable hardy evergreen; highly recommended.

Each	
12 to 18 in. spread.....	\$1.25
18 to 24 in. spread.....	2.00
2 to 2½ ft. spread.....	2.50
2½ to 3 ft. spread.....	3.50
3 to 3½ ft. spread.....	4.00
3½ to 4 ft. spread.....	5.00

Juniperus chinensis sargentii, 1½' SARGENT JUNIPER

Prostrate habit, grass-green foliage. A valuable ground cover and rock plant.

15 to 18 in. spread.....	\$3.00
18 to 24 in. spread.....	4.00
2 to 2½ ft. spread.....	5.00



*The joy of planting may be yours whether you live
in cottage or mansion.*

Figures at right of scientific name denote ultimate height.

MANHEIM, PENNSYLVANIA

<i>Juniperus communis aurea</i> , 1'-1½'	GOLDEN JUNIPER
Low spreading habit. Golden foliage, particularly bright in spring.	Each
18 to 24 in. spread.....	\$1.75
2 to 2½ ft. spread.....	2.75
<i>Juniperus communis canadensis</i> , 2½'-3'	CANADA JUNIPER
Forms a low vase-shaped bush. Leaves dark green above. Bluish underneath.	
2 to 2½ ft.....	\$2.00
2½ to 3 ft.....	3.00
<i>Juniperus communis depressa plumosa</i> , 1'-1½'	ANDORRA SPREADING JUNIPER
Invaluable in fall and winter when foliage is tinged with rich purple.	
15 to 18 in.....	\$1.75
18 to 24 in.....	2.25
2 to 2½ ft.....	3.25
<i>Juniperus communis suecica</i> , 4'-5'	SWEDISH JUNIPER
A narrow, compact column.	
15 to 18 in.....	\$1.00
18 to 24 in.....	1.50
<i>Juniperus excelsa stricta</i> , 4'-5'	SPINY GREEK JUNIPER
Compact, well-shaped pyramid. Foliage gray-green. Most useful for formal effects.	
10 to 12 in.....	\$0.75
12 to 15 in.....	1.25
15 to 18 in.....	1.50
18 to 21 in.....	2.00
21 to 24 in.....	3.00
<i>Juniperus horizontalis</i> , 1'-1½'	CREEPING JUNIPER
Branches trail along ground. Adapted to rock-work and ground covering.	
9 to 12 in. spread.....	\$0.75
18 to 24 in. spread.....	2.00
<i>Juniperus horizontalis douglasii</i> , 1'-1½'	WAUKEGAN JUNIPER
Long branches trailing along ground. Steely-blue foliage. A splendid ground cover; also effective among rock. Distinct purple hue in winter.	
Each	
2 to 3 ft. spread.....	\$4.00
3 to 4 ft. spread.....	5.00
<i>Juniperus japonica</i> , 3'-4'	JAPANESE JUNIPER
Low grower, spreading branches, dark green, scaly leaves. Adapted to rock planting. Grows slowly.	
15 to 18 in.....	\$1.50
18 to 24 in.....	2.00
2 to 2½ ft.....	3.00
2½ to 3 ft.....	4.00
<i>Juniperus sabina</i> , 6'-7'	SAVIN JUNIPER
Dense, dark green foliage. Spreading branches, forming irregular vase-shaped bush.	
12 to 15 in.....	\$0.75
15 to 18 in.....	1.00
18 to 24 in.....	2.00
2 to 2½ ft.....	2.75
2½ to 3 ft.....	3.75
<i>Juniperus squamata meyeri</i> , 3'-4'	MEYER JUNIPER
A beautiful deep blue evergreen of dwarf habit, very desirable.	
12 to 15 in.....	\$2.00
15 to 18 in.....	3.00
<i>Juniperus virginiana glauca</i> , 15'-20'	SILVER REDCEDAR
Bluish-gray foliage. Distinct.	
2 to 2½ ft.....	\$3.25
2½ to 3 ft.....	4.00
3 to 4 ft.....	5.50
4 to 5 ft.....	7.50

Figures at right of scientific name denote ultimate height.

ROOT'S NURSERIES, INC.

PICEA—SPRUCE

Picea canadensis albertiana, 25'-40' **BLACKHILLS SPRUCE**

Hardy, compact and bushy growth. Foliage green to bluish tint, bright color.

Each

12 to 18 in.....	\$1.00
18 to 24 in.....	1.50
2 to 2½ ft.....	2.00

Picea excelsa, 80'-100'

NORWAY SPRUCE

Has dark green foliage and grows rapidly. Makes a good windbreak, and also lends itself well to trimmed hedges.

Each

12 to 18 in.....	\$0.75
18 to 24 in.....	1.00
2 to 2½ ft.....	1.50
2½ to 3 ft.....	2.00
3 to 4 ft.....	3.00
4 to 5 ft.....	4.00



UNSIGHTLY VIEWS



SCREENED WITH PLANTING

Picea pungens glauca, 60'-80' **BLUE COLORADO SPRUCE**

Branches in distinct whorls, forming handsome lawn specimen.

12 to 18 in.....	\$3.00
18 to 24 in.....	5.00
2 to 2½ ft.....	7.00

Picea pungens kosteri

KOSTER BLUE SPRUCE

12 to 15 in.....	\$4.00
15 to 18 in.....	5.00
18 to 24 in.....	8.00
2 to 2½ ft.....	13.00
2½ to 3 ft.....	17.00
3 to 4 ft.....	20.00
4 to 5 ft.....	25.00

PINUS—PINE

Pinus montana mughus, 2½'-3'

MUGHO PINE

Forms a round-topped clump. Useful for rock planting and foundation work.

9 to 12 in. spread.....	\$1.00
12 to 15 in. spread.....	1.25
15 to 18 in. spread.....	2.00
18 to 24 in. spread.....	3.00
2 to 2½ ft. spread.....	5.00

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MANHEIM, PENNSYLVANIA

<i>Pinus nigra</i> , 60'-70'	AUSTRIAN PINE
Rich, dark green. Vigorous, dense grower. Good for background.	Each
18 to 24 in.....	\$1.25
2 to 3 ft.....	2.50
3 to 4 ft.....	4.00
4 to 5 ft.....	6.00
5 to 6 ft.....	8.00

<i>Pinus strobus</i> , 80'-100'	WHITE PINE
Probably our most adaptable and useful pine. Very picturesque when old.	Each
2 to 3 ft.....	\$2.50
3 to 4 ft.....	4.00
4 to 5 ft.....	6.00

<i>Pinus sylvestris</i> , 25'-30'	SCOTCH PINE
A rapid-growing, handsome tree, especially when young. Good for windbreaks.	
18 to 24 in.....	\$1.00
2 to 3 ft.....	1.50
3 to 4 ft.....	2.25
4 to 5 ft.....	4.00
5 to 6 ft.....	5.50
7 to 8 ft.....	8.00

PSEUDOTSUGA—FIR

<i>Pseudotsuga douglasii</i> , 70'-80'	DOUGLAS-FIR
Very hardy; dark bluish-green coloring. Prefers well-drained situation.	
12 to 18 in.....	\$1.00
18 to 24 in.....	1.50
2 to 2½ ft.....	2.00
2½ to 3 ft.....	3.00
3 to 4 ft.....	4.00

TAXUS—YEW

<i>Taxus baccata repandens</i> , 18"-24"	SPREADING ENGLISH YEW
Spreading, horizontal branches, dark blue-green leaves. Valuable for low planting.	
12 to 15 in.....	\$1.50
15 to 18 in.....	2.00

<i>Taxus cuspidata</i> , 4'-5'	SPREADING JAPANESE YEW
Rich, deep green leaves. Spreading, bushy habit. Valuable in foundation plantings. Exceptionally hardy.	
12 to 15 in.....	\$1.25
15 to 18 in.....	2.25
18 to 24 in.....	3.25
2 to 2½ ft.....	4.50

<i>Taxus cuspidata capitata</i> , 5'-10'	UPRIGHT JAPANESE YEW
The upright type of Spreading Japanese Yew.	
12 to 15 in.....	\$2.00
15 to 18 in.....	2.75
18 to 24 in.....	4.25
2 to 2½ ft.....	5.00

<i>Taxus cuspidata nana</i> , 2'-3'	DWARF JAPANESE YEW
Broad, thick leaves, blackish green. Slow growing and irregular, spreading habit. Exceptionally hardy.	
9 to 12 in.....	\$1.50
12 to 15 in.....	2.50
15 to 18 in.....	4.00

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ROOT'S NURSERIES, INC.

THUJA—ARBORVITAE

<i>Thuja occidentalis</i> , 15'-30'	AMERICAN ARBORVITAE
Slender pyramid with broad base. Bronzy winter coloring.	
Good accent plant or for a hedge.	Each
18 to 24 in.....	\$0.75
2 to 3 ft.....	1.25
3 to 4 ft.....	2.00
4 to 5 ft.....	3.25
5 to 6 ft.....	5.00

Thuja occidentalis compacta, 2½'-4'

PARSONS ARBORVITAE

Almost globe-shaped. Bright green. Useful in formal or foundation planting.	
9 to 12 in.....	\$0.75
12 to 15 in.....	1.00
15 to 18 in.....	1.50
18 to 24 in.....	2.00

Thuja occidentalis elegantissima, 10'-15'

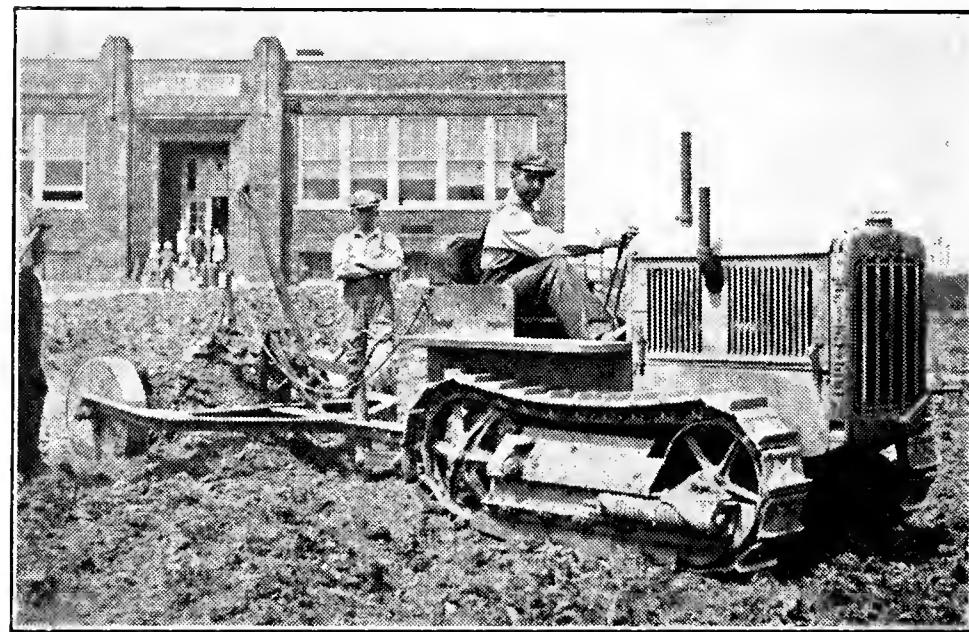
GOLDENTIPPED ARBORVITAE

Branches tipped with yellow. Rich, lustrous green.	
15 to 18 in.....	\$1.00
18 to 24 in.....	1.50

Thuja occidentalis globosa, 2½'-3'

AMERICAN GLOBE ARBORVITAE

Useful in formal work. Naturally globe-shaped.	
9 to 12 in.....	\$0.75
12 to 15 in.....	1.00
15 to 18 in.....	1.25
18 to 24 in.....	2.00
2 to 2½ ft.....	2.75



Grading Equipment

Our Caterpillar Tractor and Rotary Scoop. With this equipment and an efficient operator, we are in a position to render efficient and inexpensive grading work on large and small properties.

Thuja occidentalis lutea, 10'-15'

GEORGE PEABODY ARBORVITAE

Conspicuous golden yellow form. Columnar outline.	
9 to 12 in.....	\$0.75
12 to 15 in.....	1.00
15 to 18 in.....	1.25
18 to 24 in.....	1.50
2 to 2½ ft.....	2.00

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MANHEIM, PENNSYLVANIA

Thuja occidentalis plicata, 10'-20' MOSS ARBORVITAE

Rich, deep blue-green foliage. Short, stiff branchlets give pleasing effect in light and shade. Formal pyramid.

	Each
2 to 2½ ft	\$1.50
2½ to 3 ft	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.50

Thuja occidentalis pyramidalis, 15'-30'

PYRAMIDAL ARBORVITAE

Retains bright green coloring throughout winter. Narrow columnar shape; splendid for accents or formal planting.

12 to 18 in.	\$0.75
18 to 24 in	1.00
2 to 2½ ft.	1.50
2½ to 3 ft.	2.00
3 to 4 ft.	2.75
4 to 5 ft.	4.00
5 to 6 ft.	5.00



Partial view over one of our Evergreen Blocks.

Thuja occidentalis rosenthali, 6'-10'

ROSENTHAL ARBORVITAE

Dense, rugged columnar form. Slow grower.

9 to 12 in.	\$0.75
12 to 15 in.	1.00
15 to 18 in.	1.25
18 to 24 in.	1.50
2 to 2½ ft.	2.50

Thuja occidentalis umbraculifera, 2'-3'

UMBRELLA ARBORVITAE

Particularly good low mushroom-shaped form with rich green foliage.

12 to 15 in.	\$1.00
15 to 18 in.	1.50
18 to 24 in.	2.00
2 to 2½ ft.	3.50

Thuja occidentalis wareana, 12'-15' WARE ARBORVITAE

Light green, fleshy foliage. Broadly pyramidal, rugged in appearance.

12 to 15 in.	\$0.75
15 to 18 in.	1.00
18 to 24 in.	1.25
2 to 2½ ft.	1.75

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ROOT'S NURSERIES, INC.

Thuja orientalis aurea nana, 2½'-3'

BERCKMAN'S GOLDEN ARBORVITAE

A gem for dwarf planting; compact, roundish shape, warm golden yellow foliage. Especially good for formal work and edging.

Each

9 to 12 in.....	\$1.00
12 to 15 in.....	1.25
15 to 18 in.....	1.75

Thuja orientalis aurea conspicua, 7'-8'

GOLDSPIRE ARBORVITAE

Golden yellow in spring, bronze-yellow in winter. Distinctive.

18 to 24 in.....	\$1.75
2 to 2½ ft.....	2.75

Thuja orientalis elegantissima, 7'-8'

YELLOW COLUMN ARBORVITAE

Assumes a rich, deep golden-bronze color in winter. Compact, columnar.

3 to 4 ft.....	\$4.00
4 to 5 ft.....	6.00

TSUGA—HEMLOCK

Tsuga canadensis, 75'-90'

CANADA HEMLOCK

Most graceful and adaptable, the spreading horizontal branches making effective shadow effects. Does well in shady or sunny locations.

18 to 24 in.....	\$1.50
2 to 2½ ft.....	2.50
2½ to 3 ft.....	4.00
3 to 4 ft.....	6.00
4 to 5 ft.....	8.00
5 to 6 ft.....	10.00

BROAD LEAF EVERGREENS

ABELIA

Abelia grandiflora, 3'-4'

GLOSSY ABELIA

Choice small shrub, with white tinted lilac flowers, produced throughout the entire summer months.

15 to 18 in.....	\$0.50
18 to 24 in.....	.60
2 to 3 ft.....	.75

AZALEA

Azalea amoena, 3'-4'

AMOENA AZALEA

Conspicuous purple-red flowers, April-May. Leaves turn a rich, bronze-green in winter.

10 to 12 in.....	\$1.00
12 to 15 in.....	1.50

Azalea hinodegiri, 3'-4'

HINODEGIRI AZALEA

Larger leaves and looser growth than above; flowers very bright carmine-pink; effective in masses or with Rhododendron.

10 to 12 in	\$1.50
12 to 15 in.....	2.00

Azalea macrantha, 2½'-3'

RED SALMON AZALEA

A beautiful plant, with large flowers that appear at intervals, and not at one time like the preceding. Single and double varieties.

10 to 12 in.....	\$1.75
12 to 15 in.....	2.00

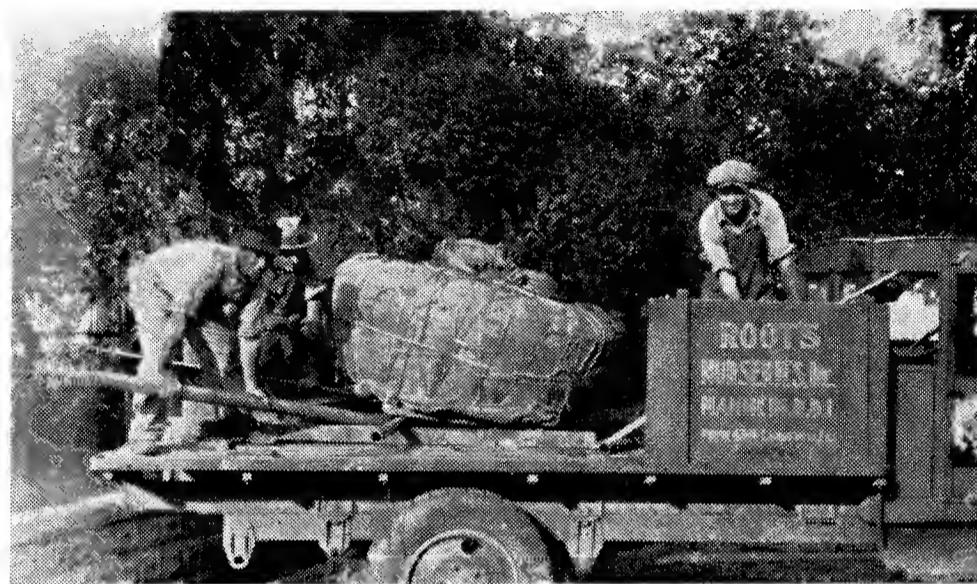
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MANHEIM, PENNSYLVANIA

BERBERIS—BARBERRY

<i>Berberis ilicifolia</i> , 5'-6'	HOLLY BARBERRY
Holly-like leaves, persisting until new foliage appears; flowers yellow. Semi-evergreen.	Each
15 to 18 in.....	\$1.50

<i>Berberis julianae</i> , 4'-5'	WINTERGREEN BARBERRY
Beautiful hardy variety, of compact growth, with nice glossy green foliage throughout the winter.	
15 to 18 in.....	\$2.00



Moving of large Boxwood without injury to the plant

BUXUS—BOXWOOD

<i>Buxus sempervirens</i> (bush form), 12'-15'	BOXWOOD
--	---------

Useful for formal hedges. Specially desired for planting as individual specimens on lawns or in tubs.

	Each	Per 10	Per 100
8 to 10 in.....	\$0.40	\$3.00	
10 to 12 in.....	.60	5.00	
12 to 15 in.....	.90	7.50	
15 to 18 in.....	1.00	9.00	
18 to 21 in.....	1.75	15.00	

<i>Buxus sempervirens suffruticosa</i> , 3'-4'	TRUEDWARF BOX
--	---------------

A very low growing variety, used for window boxes and edgings around beds of shrubbery or along walks, etc.

3 to 4 in.....	\$0.20	\$1.50	\$10.00
4 to 6 in.....	.25	2.00	15.00
6 to 8 in.....	.50	4.00	35.00
8 to 10 in.....	1.00	7.50	

COTONEASTER

<i>Cotoneaster horizontalis</i> , 1'-1½'	ROCK COTONEASTER
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Small box-like leaves; bright red berries, effective among rocks.

6 to 9 in.....	\$0.75
9 to 12 in.....	1.25

DAPHNE

<i>Daphne cneorum</i> , 1'	ROSE DAPHNE
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Gray-green foliage, low spreading. Pretty pink flowers in April-May. Delightful fragrance.

10 to 12 in.....	\$1.00
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Figures at right of scientific name denote ultimate height.

ROOT'S NURSERIES, INC.

EUONYMUS

<i>Euonymus japonicus</i> , 5'-6'	EVERGREEN BURNINGBUSH
Lustrous, deep green leaves; upright bushy habit; needs winter protection here.	Each Per 10 Per 100
12 to 18 in.....	\$1.00

Euonymus radicans vegetus, 3'-4'

BIGLEAF WINTERCREEPER

Bushy, interesting growth. Leaves round, dull green. Bright scarlet fruits, freely produced. Handsome among evergreens. Also called Evergreen Bittersweet.

9 to 12 in.....	\$0.40	\$3.50
12 to 15 in.....	.50	4.00
15 to 18 in.....	.60	5.00

ILEX—HOLLY

<i>Ilex crenata</i> , 8'-10'	JAPANESE HOLLY
Box-like leaves, rich, deep green, and leathery. Stiff branching, makes a good hedge. Black berries.	
15 to 18 in.....	\$2.50
18 to 24 in.....	3.50

<i>Ilex crenata microphylla</i> , 6'-8'	LITTLE JAPANESE HOLLY
Smaller leaves and more hardy than preceding.	
18 to 24 in.....	\$3.50

<i>Ilex glabra</i> , 5'-6'	INKBERRY
Shining, dark green leaves, purplish in winter; black berries. Useful for shady spots, also succeeds in sun.	
15 to 18 in.....	\$2.50

<i>Ilex opaca</i>	AMERICAN HOLLY
Does best in moist, partially shaded place. Rather difficult to transplant.	
18 to 24 in.....	\$3.00

KALMIA—LAUREL

<i>Kalmia latifolia</i> , 5'-7'	MOUNTAIN-LAUREL
Most effective in June when the clusters of pink flowers open. Good foliage; like shade.	
15 to 18 in.....	\$1.50
18 to 24 in.....	2.00

LEUCOTHOE

<i>Leucothoe catesbaei</i> , 3'-4'	DROOPING LEUCOTHOE
Attractive white flowers, May. Handsome lustrous leaves, rich autumn coloring. Splendid for under planting in shade.	
12 to 15 in.....	\$1.75

MAHONIA—HOLLYGRAPE

<i>Mahonia aquifolium</i> , 4'-5'	OREGON HOLLYGRAPE
Shining green leaves, turn rich scarlet in autumn; striking in May when yellow flowers appear; blue-black fruits. Best in half shade.	
15 to 18 in.....	\$1.50

PACHYSANDRA—SPURGE

<i>Pachysandra terminalis</i> , 6"-8"	JAPANESE SPURGE
One of the best bedding plants for green effect in shady places.	
4 to 6 in.....	\$1.25 \$10.00

Figures at right of scientific name denote ultimate height.

MANHEIM, PENNSYLVANIA

RHODODENDRON

Rhododendron maximum, 8'-12'

ROSEBAY RHODODENDRON

Beautiful light pink flowers freely produced in May-June.
Large handsome foliage, most effective in masses.

	Each	Per 10
18 to 24 in.....	\$2.00	
2 to 2½ ft.....	2.50	

Rhododendron Hybrid

HYBRID RHODODENDRON

Beautiful red or pink.

15 to 18 in.....	\$5.00
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VINCA—PERIWINKLE

Vinca minor

PERIWINKLE

Very good ground cover.

3-in. pots.....	\$0.20	\$1.50
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YUCCA—ADAM'S NEEDLE

Yucca filamentosa, 2'-3'

ADAM'S NEEDLE

Long lance-like leaves. Tall flower spike grows up quickly in June-July. Numerous creamy flowers and general appearance gives tropical effect. Useful for massing with either evergreens or shrubbery.

3-yr. plants.....	\$0.30	\$2.00
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ORNAMENTAL SHRUBS

ACANTHOPanax—ARALIA

Acanthopanax pentaphyllum, 7'-8'

FIVE LEAF ARALIA

Graceful, arching habit; splendid for banks; very adaptable; good foliage for smoky exposures.

	Each	Per 10
2 to 3 ft.....	\$0.40	\$3.50
3 to 4 ft.....	.50	



Flowering Shrubs make an effective yet very inexpensive planting.

Our Landscape Department will be glad to suggest the proper arrangement or design for a shrub planting. The cost of the plants will be very low. They may also be used to fill out a planting of evergreens.

AZALEA

Azalea kaempferi, 4'-5'

TORCH AZALEA

Warm, brick-red flowers, May.

15 to 18 in.....	\$3.00
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Azalea mollis, 4'-6'

CHINESE AZALEA

Large showy flowers in shades of orange and red. May-June.

Large hairy leaves. Likes sun.

12 to 15 in.....	\$2.00
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15 to 18 in.....	2.50
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Figures at right of scientific name denote ultimate height.

ROOT'S NURSERIES, INC.

<i>Azalea yodogawa</i> , 3'-4'	YODOGAWA AZALEA
Double pinkish-lavender flowers, May. Very hardy and of exceptional merit.	Each Per 10 Per 100
12 to 15 in.....	\$2.50
15 to 18 in.....	3.00

BERBERIS—BARBERRY

<i>Berberis thunbergi</i> , 4'-5'	JAPANESE BARBERRY
A splendid low hedge plant, or for massing; brilliant autumn coloring; scarlet berries.	
9 to 12 in.....	\$0.12
12 to 15 in.....	.15
15 to 18 in.....	.20
18 to 24 in.....	.25
	\$1.00
	1.25
	1.50
	2.00
	\$8.00
	10.00
	12.50
	15.00

<i>Berberis thunbergi atropurpurea</i>	RED-LEAVED JAPANESE BARBERRY
A very desirable new red leaved variety of the above. Should be planted in sun for best color.	
9 to 12 in.....	\$0.25
12 to 15 in.....	.30
15 to 18 in.....	.40
18 to 24 in.....	.50
	\$2.00
	2.50
	3.50
	4.50

BUDDLEIA—BUTTERFLY BUSH

<i>Buddleia davidi magnifica</i> , 5'-6'	BUTTERFLY BUSH
Very effective with gray-green foliage and deep lilac flowers; likes sun. June, September.	
2 to 3 ft.....	\$0.35
3 to 4 ft.....	.45
	\$3.00
	4.00

CALLICARPA—BEAUTYBERRY

<i>Callicarpa purpurea</i> , 3'-4'	CHINESE BEAUTYBERRY
Lilac-violet berries, especially attractive in August. Graceful habit.	
15 to 18 in.....	\$0.25
18 to 24 in.....	.35

CALYCANTHUS—SWEETSHRUB

<i>Calycanthus floridus</i> , 4'-5'	SWEETSHRUB
Chocolate colored flowers, fragrant.	
18 to 24 in.....	\$0.40
2 to 3 ft.....	.50

CARYOPTERIS—BLUEBEARD

<i>Caryopteris incana</i> , 2'-3'	BLUEBEARD
Lavender-blue flowers, September-October. Splendid for massing.	
15 to 18 in.....	\$0.60
	\$5.00

CEPHALANTHUS—BUTTONBUSH

<i>Cephalanthus occidentalis</i> , 5'-6'	BUTTONBUSH
Round heads of creamy white flowers, July-Sept. Good foliage; likes moisture.	
18 to 24 in.....	\$0.40
2 to 3 ft.....	.50

CLETHRA—SUMMERSWEET

<i>Clethra alnifolia</i> , 4'-5'	SUMMERSWEET
Also called Sweet Pepper Bush.	
Spikes of very fragrant flowers, July-Sept. Prefers moist, shady places.	
18 to 24 in.....	\$0.60
2 to 3 ft.....	.75

Figures at right of scientific name denote ultimate height.

MANHEIM, PENNSYLVANIA

CORNUS—DOGWOOD

<i>Cornus stolonifera</i> , 7'-8'	RED-OSIER DOGWOOD
Spreading habit, dark red bark, white fruits. Does well in moisture.	Each Per 10 Per 100
2 to 3 ft.....	\$0.40 \$3.00
3 to 4 ft.....	.50 4.00
<i>Cornus stolonifera lutea</i> , 6'-7'	GOLDENTWIG DOGWOOD
Has distinct yellow bark; fine for winter effects.	
2 to 3 ft.....	\$0.40 \$3.00
3 to 4 ft.....	.50 4.00

CYDONIA—FLOWERING QUINCE

<i>Cydonia japonica</i> , 4'-5'	FLOWERING QUINCE
Scarlet flowers in April, May.	
18 to 24 in.....	\$0.40 \$3.00
2 to 3 ft.....	.50 4.00

DEUTZIA

<i>Deutzia gracilis</i> , 3'	SLENDER DEUTZIA
Profuse bloomer, pure white, May.	Useful "facing" shrub.
12 to 15 in.....	\$0.30 \$2.00 \$15.00
15 to 18 in.....	.40 3.00 20.00
<i>Deutzia lemoinei</i> , 4'-5'	LEMOINE DEUTZIA
Large white flowers, graceful shrub, June.	
15 to 18 in.....	\$0.30 \$2.00
18 to 24 in.....	.40 3.00
<i>Deutzia scabra crenata fl. pl.</i> , 6'-8'	DOUBLE PINK DEUTZIA
Pink, slightly fragrant, June.	
2 to 3 ft.....	\$0.40 \$3.00
3 to 4 ft.....	.50 4.00
<i>Deutzia scabra pride of Rochester</i> , 9'-10'	LARGE FLOWERED DEUTZIA
Vigorous, large flower tinged pink, June.	
3 to 4 ft.....	\$0.40
4 to 5 ft.....	.50

EUONYMUS

<i>Euonymus alatus</i> , 9'-10'	WINGED EUONYMUS
Interesting corky bark, warm crimson autumn coloring.	
Makes fine specimen shrub.	
18 to 24 in.....	\$0.50
2 to 3 ft.....	.75

EXOCHORDA—PEARLBUSH

<i>Exochorda grandiflora</i> , 6'-9'	PEARLBUSH
Dazzling white flowers, May.	Is improved by pruning.
2 to 3 ft.....	\$0.40
3 to 4 ft.....	.50

FORSYTHIA—(GOLDEN BELL)

<i>Forsythia suspensa fortunei</i> , 7'-8'	FORTUNE FORSYTHIA
Good habit, arching branches, vigorous grower.	
2 to 3 ft.....	\$0.40 \$3.00
3 to 4 ft.....	.50 4.00
4 to 5 ft.....	.60 5.00

<i>Forsythia intermedia spectabilis</i> , 6'-8'	SHOWY BORDER FORSYTHIA
Most profuse of all, with rich golden yellow flowers.	
2 to 3 ft.....	\$0.50 \$4.00
3 to 4 ft.....	.60 5.00

Figures at right of scientific name denote ultimate height.

ROOT'S NURSERIES, INC.

HIBISCUS—SHRUB-ALTHEA

Hibiscus syriacus, 10'-12'

SHRUB-ALTHEA

Also called Rose of Sharon. Rather formal in outline, flowering in August and September. Pink, purple, red, and white, single and double.

	Each	Per 10
2 to 3 ft.....	\$0.40	\$3.00
3 to 4 ft.....	.50	4.00

HYDRANGEA

Hydrangea arborescens grandiflora, 4'-5'

SNOWHILL HYDRANGEA

Large double white flower panicles, very showy. August.
18 to 24 in..... \$0.35 \$2.50
2 to 3 ft..... .40 3.00

Hydrangea paniculata grandiflora, 8'-9'

PEEGEE HYDRANGEA

Very showy, blooming in September.
18 to 24 in..... \$0.35 \$2.50
2 to 3 ft..... .40 3.50

Hydrangea paniculata grandiflora standard

TREE HYDRANGEA

3 to 4 ft..... \$1.00 \$9.00

HYPERICUM—GOLDFLOWER

Hypericum moserianum, 2'

GOLDFLOWER

Large, waxy yellow flowers. July-August. Dainty, half-herbaceous, splendid mass plant.

12 to 15 in..... \$0.50 \$4.00

KOLKWITZIA—BEAUTY BUSH

Kolkwitzia amabilis, 4'-6'

BEAUTY BUSH

A beautiful shrub similar to the Weigela. Mass of pink flowers, early May.

18 to 24 in..... \$0.50

2 to 3 ft..... .75



BEFORE AND AFTER PLANTING
From desolation this little house was changed to a home within a beautiful garden by means of trees and plants.



LIGUSTRUM—PRIVET

Ligustrum ovalifolium variegatum, 8'-9'

GOLDEN CALIFORNIA PRIVET

12 to 15 in.....	\$0.30	\$2.00
15 to 18 in.....	.40	3.00
18 to 24 in.....	.50	4.00

Figures at right of scientific name denote ultimate height.

MANHEIM, PENNSYLVANIA

LONICERA—HONEYSUCKLE

Lonicera fragrantissima, 6'-8' WINTER HONEYSUCKLE
Fragrant white flower, April-May. Half-evergreen.

Each Per 10

2 to 3 ft.....\$0.40

Lonicera tatarica, 9'-10' TATARIAN HONEYSUCKLE

Pink, red and white. Flowers and fruit freely produced.
A most adaptable shrub.

2 to 3 ft.....\$0.40

3 to 4 ft..... .50

PHILADELPHUS—MOCKORANGE

Philadelphus coronarius, 9'-10' SWEET MOCKORANGE
White fragrant flowers profusely borne in May-June.

2 to 3 ft.....\$0.40 \$3.00

3 to 4 ft..... .50 4.00

Philadelphus coronarius aureus, 4'-5' GOLDEN MOCKORANGE

Dwarf, compact form. Yellow leaves.

15 to 18 in.....\$0.40

18 to 24 in..... .50

Philadelphus virginalis, 7'-8' VIRGINAL MOCKORANGE

Beautiful semi-double flowers produced intermittently all summer.

18 to 24 in.....\$0.40 \$3.00

2 to 3 ft..... .50 4.00

3 to 4 ft..... .60 5.00

PHYSOCARPUS—NINEBARK

Physocarpus opulifolius, 9'-10' NINEBARK
Creamy white, June. Vigorous. Good for shade.

3 to 4 ft.....\$0.50

PRUNUS—ALMOND

Prunus glandulosa, 5'-6' FLOWERING ALMOND
Flowers double, May. Very showy, there are Pink and White varieties.

18 to 24 in.....\$0.50

2 to 3 ft..... .60

RHODOTYPOS—JETBEAD

Rhodotypos kerrioides, 4'-5' JETBEAD
Fresh green foliage, pure white flowers, May-June. Shining black bead-like berries all winter.

2 to 3 ft.....\$0.40

RHUS—SUMAC

Rhus canadensis, 4'-5' FRAGRANT SUMAC
Clusters of small yellow flowers, April-May. Most attractive in June when covered with coral-red fruits. Withstands drought. Aromatic foliage.

2 to 3 ft.....\$0.75

Rhus cotinus, 10'-12' SMOKETREE

Also called Purple Fringe.

2 to 3 ft.....\$0.75

SPIRAEA—SPIREA

Spiraea bumalda, anthony waterer, 3' ANTHONY WATERER SPIREA
Deep rose pink; very free flowering all summer.

9 to 12 in.....\$0.20 \$1.50

12 to 15 in..... .30 2.00

15 to 18 in..... .40 3.00

18 to 24 in..... .50 4.00

Figures at right of scientific name denote ultimate height.

ROOT'S NURSERIES, INC.

<i>Spiraea prunifolia</i> , 7'-8'	BRIDALWREATH	
White, May. Free flowering; handsome dark green shining foliage, turning orange in autumn. Each	Per 10	Per 100
18 to 24 in.....	\$0.30	\$2.00
2 to 3 ft.....	.40	3.00
3 to 4 ft.....	.50	4.00
<i>Spiraea thunbergi</i> , 4'-5'	THUNBERG SPIREA	
Slender, arching branches clothed with pure-white flowers, April-May. Small, feathery, light-green leaves.		
18 to 24 in.....	\$0.30	\$2.00
2 to 2½ ft.....	.40	3.00
2½ to 3 ft.....	.50	4.00
<i>Spiraea vanhouttei</i> , 8'-9'	VANHOUTTE SPIREA	
White, May-June. Graceful habit. Extremely free-flowering and very adaptable.		
18 to 24 in.....	\$0.20	\$1.25
2 to 3 ft.....	.30	2.00
3 to 4 ft.....	.40	3.00
4 to 5 ft.....	.50	4.00

SYMPHORICARPOS—SNOWBERRY

<i>Symporicarpos racemosus</i> , 5'-6'	SNOWBERRY		
Conspicuous, white berries, attractive foliage. Most adaptable, but best in half shady, moist locations.			
2 to 3 ft.....	\$0.40	\$3.00	
3 to 4 ft.....	.50	4.00	
<i>Symporicarpos vulgaris</i> , 4'-5'	CORALBERRY		
Coral red berries persisting throughout winter. Good for shade, and bank planting.			
18 to 24 in.....	\$0.25	\$2.00	\$15.00
2 to 3 ft.....	.35	2.50	20.00
3 to 4 ft.....	.45	3.50	30.00

SYRINGA—LILAC

FRENCH LILACS—NAMED VARIETIES

These are all grown from cuttings and are on their own roots, which is the best way Lilacs can be grown, as they will not sucker. These named Lilacs generally grow from 6 to 12 ft. in height, depending on the variety and locality.

Charles the Tenth, reddish purple, single

Ludwig Spaeth, single reddish purple

Marie LeGraye, single white

Michel Buchner, double lilac

Mme. Lemoine, double white

President Grevy, double blue

Red Marly, single light blue

William Robinson, double violet pink

2 to 3 ft..... \$0.90 \$8.00

3 to 4 ft..... 1.20 10.00



Partial view of planting of Dr. D. H. Anderson, Ephrata, Pa.

Figures at right of scientific name denote ultimate height.

MANHEIM, PENNSYLVANIA

TAMARIX

<i>Tamarix africana</i> , 12'-14'	AFRICAN TAMARIX
Pink, April-May. Has feathery, gray-green foliage. Very effective near water.	Each Per 10
3 to 4 ft.....	\$0.50

VIBURNUM

<i>Viburnum americanum</i> , 8'-9'	AMERICAN CRANBERRYBUSH
Bright scarlet berries in large bunches, persisting all winter.	
18 to 24 in.....	\$0.40 \$3.00
2 to 3 ft.....	.50 4.00
<i>Viburnum carlesi</i> , 4'	FRAGRANT VIBURNUM
One of the most desirable semi-dwarf flowering shrubs with wonderfully fragrant flower clusters of white shaded with pink. Foliage nice green.	
12 to 15 in.....	\$1.25
<i>Viburnum cassinoides</i> , 5'-6'	WITHE-ROD
White, June-July. Berries pink, changing to dark blue. Rich autumn coloring; splendid for massing and near water.	
2 to 3 ft.....	\$0.75
<i>Viburnum dentatum</i> , 10'-12'	ARROWWOOD
White, May-June. Berries blue-black, autumn coloring purple and red; thrives in wet soil.	
2 to 3 ft.....	\$0.50
<i>Viburnum opulus</i> , 9'-10'	EUROPEAN CRANBERRYBUSH
Berries resemble the cranberry very much, cling to branches all winter.	
18 to 24 in.....	\$0.40 \$3.00
2 to 3 ft.....	.50 4.00
3 to 4 ft.....	.60 5.00
<i>Viburnum rhytidophyllum</i> , 6'-8'	LEATHERLEAF VIBURNUM
Evergreen. Large, oblong leaves, deep green above, gray beneath; a bold, handsome shrub.	
18 to 24 in.....	\$1.25
<i>Viburnum tomentosum plicatum</i> , 7'-8'	JAPANESE SNOWBALL
Showy white flowers in balls, June. Handsome foliage with purple autumn coloring.	
18 to 24 in.....	\$0.50 \$4.00
2 to 2½ ft.....	.60 5.00

WEIGELA

<i>Weigela amabilis</i> , 7'-8'	ROSE WEIGELA
Light Pink.	
2 to 3 ft.....	\$0.40 \$3.00
3 to 4 ft.....	.50 4.00
<i>Weigela Eva Rathke</i> , 4'-5'	RED FLOWERED WEIGELA
Carmine, June-August. Most floriferous.	
18 to 24 in.....	\$0.40 \$3.00
2 to 3 ft.....	.50 4.00
<i>Weigela nana variegata</i> , 4'-5'	VARIEGATED LEAF WEIGELA
Pale pink flower; variegated leaves; dwarf, compact growth.	
18 to 24 in.....	\$0.30
2 to 3 ft.....	.40
<i>Weigela rosea</i> , 7'-8'	PINK WEIGELA
Showy, pink flowers freely produced, June. Vigorous grower.	
2 to 3 ft.....	\$0.40
3 to 4 ft.....	.50

Figures at right of scientific name denote ultimate height.

ROOT'S NURSERIES, INC.

SHADE AND ORNAMENTAL TREES

ACER—MAPLE

Acer dasycarpum, 60'-80' SILVER MAPLE

Quick growing, graceful shade tree; leaves silvery underneath.	Each	Per 10
8 to 10 ft., 1 to 1½ in. cal.	\$1.25	\$10.00
8 to 10 ft., 1½ to 1¾ in. cal.	1.75	15.00
10 to 12 ft., 1½ to 1¾ in. cal.	2.00	17.50
10 to 12 ft., 1¾ to 2 in. cal.	2.50	22.50
12 to 14 ft., 2 to 2½ in. cal.	3.50	
12 to 14 ft., 2½ to 3 in. cal.	5.00	
14 to 16 ft., 3 to 4 in. cal.	6.00	

Acer dasycarpum wieri, 60'-80' WIER MAPLE

Graceful, drooping form; delicately cut leaves; very desirable.		
8 to 10 ft., 1 to 1½ in. cal.	\$1.75	

Acer palmatum atropurpureum, 6'-8' BLOODLEAF JAPANESE MAPLE

A good dwarf tree with rich purple-red leaves all summer. Best in sun.		
12 to 15 in.	\$2.00	
15 to 18 in.	2.50	
18 to 24 in.	3.00	

Acer palmatum atropurpureum dissectum, 4'-6' PURPLE CUTLEAF JAPANESE MAPLE

More dwarf than the above with finely cut purple-red leaves, giving the plant a very graceful appearance. Good for rock work.		
12 to 15 in.	\$3.00	

Acer platanoides, 50'-75' NORWAY MAPLE

The most popular street tree; retains its green leaves until late autumn.		
6 to 8 ft.	\$1.25	\$10.00
8 to 10 ft., 1 to 1¼ in. cal.	2.00	17.50
8 to 10 ft., 1½ to 1¾ in. cal.	2.50	22.50
10 to 12 ft., 1½ to 1¾ in. cal.	3.00	27.50
10 to 12 ft., 1¾ to 2 in. cal.	3.50	32.50
12 to 14 ft., 2 to 2½ in. cal.	4.00	37.50
12 to 14 ft., 2½ to 3 in. cal.	5.00	

Acer platanoides schwedleri, 40'-60' SCHWEDLER PURPLE LEAF MAPLE

Probably the best large growing purple leaf tree. Useful as lawn specimen.		
6 to 8 ft.	\$2.00	
8 to 10 ft., 1 to 1¼ in. cal.	3.50	
8 to 10 ft., 1½ to 1¾ in. cal.	4.50	

Acer saccharum, 50'-75' SUGAR MAPLE

Similar to Norway Maple, taller, growing straight, spreading, symmetrical.		
6 to 8 ft.	\$1.75	\$15.00
8 to 10 ft., 1 to 1¼ in. cal.	2.25	20.00
8 to 10 ft., 1½ to 1¾ in. cal.	3.00	27.50
10 to 12 ft., 1½ to 1¾ in. cal.	4.00	37.50
10 to 12 ft., 1¾ to 2 in. cal.	5.00	

BETULA—BIRCH

Betula alba, 30'-50' EUROPEAN WHITE BIRCH

Known by its white bark.		
5 to 6 ft.	\$1.00	\$ 7.50
6 to 8 ft.	1.50	12.50
8 to 10 ft.	2.00	17.50

Betula alba lacinata, 30'-40' CUTLEAF WEEPING BIRCH

Excellent tree for lawn planting. Very graceful.		
4 to 5 ft.	\$1.75	\$15.00
5 to 6 ft.	2.00	17.50
6 to 8 ft.	2.50	22.50
8 to 10 ft.	2.75	25.00

Figures at right of scientific name denote ultimate height.

MANHEIM, PENNSYLVANIA

CATALPA

Catalpa bignonioides nana, 10'-15' UMBRELLA CATALPA

Useful in formal planting.	Each	Per 10
Light Heads, 5 to 6 ft.	\$1.00	\$ 7.50
Medium Heads, 5 to 6 ft.	1.25	10.00
Large Heads, 5 to 6 ft.	2.50	20.00

CERCIS—REDBUD

Cercis canadensis, 12'-15' AMERICAN REDBUD

Rosy-Pink; April; very effective when planted with Dogwood; good foliage. Also called Judas Tree.		
3 to 4 ft.	\$0.80	\$7.00
4 to 5 ft.	1.00	9.00



Pfitzer Juniper

CORNUS—DOGWOOD

Cornus florida, 15'-25' WHITE FLOWERING DOGWOOD

Among the best of the spring flowering small trees.

3 to 4 ft.	\$1.50	\$12.50
4 to 5 ft.	2.00	17.50
5 to 6 ft.	2.75	25.00
6 to 8 ft.	4.50	

Cornus florida rubra, 15'-20' RED FLOWERING DOGWOOD

The pink flowers are more persistent than the white.

18 to 24 in.	\$2.00	\$17.50
2 to 3 ft.	2.50	22.50
3 to 4 ft.	3.00	27.50
4 to 5 ft.	5.50	52.50

Cornus kousa, 16'-18'

KOUSA DOGWOOD

White flowers in June. Conspicuous cherry-like scarlet fruits, attractive to birds.

18 to 24 in.	\$1.00	\$ 7.50
2 to 3 ft.	1.25	10.00

CRATAEGUS—HAWTHORN

Crataegus oxyacantha pauli, 12'-15'

PAUL ENGLISH HAWTHORN

Double scarlet flowers.

2 to 3 ft.	\$1.50	\$10.00
3 to 4 ft.	2.00	15.00

FAGUS—BEECH

Fagus sylvatica riversi, 75'-100'

RIVERS BEECH

One of our best native trees; distinctive silver-gray bark.

18 to 24 in.	\$3.00
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Figures at right of scientific name denote ultimate height.

Typical Plantings by our



*Outdoor Living Room on
property of H. W. Hot-
tenstein, East Petersburg,
Pa.*

No. 1—Berckman Golden
Arborvitae

2—Moss Retinospora

3—Umbrella
Arborvitae

Our Landscape Department



*Part of Foundation
Planting at Home of
Amos Weidman, Man-
heim, Pa.*

- No. 1—*Mugho Pine*
- 2—*Spreading Juniper*
- 3—*Pyramidal Arborvitae*
- 4—*Pfitzer Juniper*
- 5—*Spiny Greek Juniper*
- 6—*Koster Blue Spruce*



ROOT'S NURSERIES, INC.

FRAXINUS—ASH

<i>Fraxinus americana</i> , 70'-80'	WHITE ASH
Fairly rapid grower; assumes pleasing golden tones in autumn; good in moist soils.	Each Per 10
8 to 10 ft., 1 to 1½ in. cal.....	\$2.00 \$17.50
10 to 12 ft., 1½ to 2 in. cal.....	2.50 22.50

GINKGO—MAIDENHAIR-TREE

<i>Ginkgo biloba</i> , 50'-75'	MAIDENHAIR-TREE
Picturesque, interesting, quite distinct leaves shaped like maidenhair fern; immune from insects.	
8 to 10 ft.....	\$4.00

LIRIODENDRON—TULIPTREE

<i>Liriodendron tulipifera</i> , 60'-80'	TULIPTREE
A quick grower; the yellow tulip-like flowers are produced in June.	
8 to 10 ft.....	\$2.00
10 to 12 ft., 1½ to 2 in. cal.....	3.00
12 to 14 ft., 2 to 2½ in. cal.....	4.00

MAGNOLIA

<i>Magnolia soulangeana</i> , 15'-18'	SAUCER MAGNOLIA
Large purplish-pink and white flowers in May. Best transplanted in early spring.	
18 to 24 in.....	\$3.00
2 to 3 ft.....	4.50
3 to 4 ft.....	5.00

MALUS—CRAB

<i>Malus ioensis plena</i> , 10'-15'	BECHTEL CRAB
Large double pure pink flowers with noticeable fragrance; vigorous grower.	
3 to 4 ft.....	\$1.00
4 to 5 ft.....	1.50
5 to 6 ft.....	2.00

<i>Malus sargentii</i>	SARGENT CRAB
Very dwarf spreading variety. Pale straw-color flowers with bright yellow anthers; scarlet fruit hanging until spring.	
5 to 6 ft.....	\$2.00

MORUS—MULBERRY

<i>Morus alba pendula</i> , 8'-10'	WEEPING MULBERRY
The most popular small "weeping" tree.	
Medium Heads.....	\$1.25
Large Heads.....	1.75
Extra Large Heads.....	2.50

PLATANUS—PLANETREE

<i>Platanus orientalis</i> , 70'-80'	EUROPEAN PLANETREE
A good tree for park and street use; grows rather quickly; withstands smoky city conditions.	
6 to 8 ft.....	\$1.25 \$10.00
8 to 10 ft., 1 to 1¼ in. cal.....	1.50 12.50
8 to 10 ft., 1¼ to 1½ in. cal.....	2.00 15.00
10 to 12 ft., 1½ to 1¾ in. cal.....	2.50 20.00
10 to 12 ft., 1¾ to 2 in. cal.....	3.00 25.00

POPULUS—POPLAR

<i>Populus nigra italicica</i> , 60'-80'	LOMBARDY POPLAR
Tall spire-like character; valued for landscape work and screens.	
8 to 10 ft.....	\$0.85 \$6.50
<i>Populus simoni</i> , 25'-30'	SIMON POPLAR
Hardy tree with good foliage; upright growth.	
6 to 8 ft.....	\$0.75 \$6.00
8 to 10 ft.....	1.00 7.50

Figures at right of scientific name denote ultimate height.

MANHEIM, PENNSYLVANIA

PRUNUS—JAP. FLOWERING CHERRY

<i>Prunus aequin. rosea</i>	BENI HIGAN CHERRY
Large pink flowers, early.	Each
3 to 4 ft.....	\$1.75
4 to 5 ft.....	2.75
<i>Prunus lannesiana erecta</i>	AMANOGAWA CHERRY
Fragrant pale pink flowers. Upright growth, moderate size.	
3 to 4 ft.....	\$1.75
<i>Prunus lannesiana sirotae</i>	MT. FUGI CHERRY
Pure white; double flowers.	
4 to 5 ft.....	\$2.25
5 to 6 ft.....	3.00
<i>Prunus serrulata sekiyama</i>	KWANZAN CHERRY
Double dark pink, late.	
3 to 4 ft.....	\$1.75
4 to 5 ft.....	2.75
5 to 6 ft.....	3.50
<i>Prunus sieboldi</i> (Naden)	SIEBOLD CHERRY
Small tree, very showy. Abundant pale pink blossoms, fairly large, mid-April.	
4 to 5 ft.....	\$2.75
<i>Prunus subhirtella pendula</i>	WEEPING JAP. CHERRY
A most beautiful and graceful tree, covered with single pink blossoms in early spring.	
5 to 6 ft.....	\$3.00

PRUNUS—PLUM

<i>Prunus cerasifera pissardi</i> , 12'-15'	PURPLELEAF PLUM
Valued chiefly because of purplish foliage; should be pruned every year for best color effect.	
3 to 4 ft....	\$0.60
4 to 5 ft....	.75
5 to 6 ft....	1.00
<i>Prunus triloba plena</i> , 7'-8'	DOUBLE FLOWERING PLUM
Double pink flowers, April-May. Handsome and useful.	
4 to 5 ft....	\$1.00
<i>Prunus cistena</i> , 5'-6'	HANSEN'S PURPLE LEAVED PLUM
A dwarf, hardy variety with rich purple-red foliage.	
4 to 5 ft....	\$0.75

QUERCUS—OAK

<i>Quercus palustris</i> , 75'-90'	PIN OAK
Takes most kindly to cultivation; prefers moist soil, but is very adaptable. Particularly fitting as a street tree; good autumn effects.	
6 to 8 ft.....	\$2.50
8 to 10 ft., 1 to 1½ in. cal.....	3.75
8 to 10 ft., 1½ to 1½ in. cal.....	5.00
10 to 12 ft., 1½ to 1¾ in. cal.....	6.00
10 to 12 ft., 1¾ to 2 in. cal.....	7.50
<i>Quercus rubra</i> , 75'-90'	RED OAK
Comparatively quick growth; rich autumn coloring in greens and reds.	
8 to 10 ft., 1 to 1¼ in. cal.....	\$4.50

SALIX—WILLOW

<i>Salix babylonica</i> , 50'-60'	BABYLON WEEPING WILLOW
Particularly appropriate for waterside planting with its long pendulous branches.	
5 to 6 ft.....	\$1.00
6 to 8 ft.....	1.25
8 to 10 ft.....	1.75
<i>Salix caprea</i> (bush form), 15'-20'	PUSSY WILLOW
Very desirable for spring effects. Will do well on dry as well as wet places.	
3 to 4 ft.....	\$0.50

Figures at right of scientific name denote ultimate height.

ROOT'S NURSERIES, INC.

SORBUS—ASH

Sorbus aucuparia, 25'-30' EUROPEAN MOUNTAIN-ASH

A valuable tree on a small lawn; the scarlet berries are quite striking.

Each Per 10

5 to 6 ft.....	\$1.00	\$8.50
6 to 8 ft.....	1.25	10.00
8 to 10 ft., 1 to 1½ in. cal.....	1.75	15.00
8 to 10 ft., 1½ to 1¾ in. cal.....	2.25	20.00

TILIA—LINDEN

Tilia americana, 75'-90' AMERICAN LINDEN

Grows rather quickly, forming an open head. Has fragrant yellow flowers.

8 to 10 ft., 1 to 1¼ in. cal.....	\$2.50
8 to 10 ft., 1½ to 1¾ in. cal.....	3.50
10 to 12 ft., 1½ to 1¾ in. cal.....	4.50

Tilia vulgaris, 60'-70' EUROPEAN LINDEN

Leaves smaller than American Linden. In late June the fragrant flowers are noticeable, grows symmetrical and compact.

8 to 10 ft., 1 to 1¼ in. cal.....	\$4.50
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ULMUS—ELM

Ulmus americana, 80'-100' AMERICAN ELM

Stateliness and dignity are here exemplified. Fairly rapid in growth, this typical American tree soon assumes regal proportions and commands respect of all who look upon it.

6 to 8 ft.....	\$1.00	\$7.50
8 to 10 ft., 1 to 1¼ in. cal.....	1.25	10.00
8 to 10 ft., 1½ to 1¾ in. cal.....	1.75	15.00
10 to 12 ft., 1½ to 1¾ in. cal.....	2.25	20.00
10 to 12 ft., 1¾ to 2 in. cal.....	3.50	30.00
12 to 14 ft., 2 to 2½ in. cal.....	4.50	40.00
12 to 14 ft., 2½ to 3 in. cal.....	6.50	60.00
14 to 16 ft., 3 to 4 in. cal.....	8.00	

Ulmus americana molinei, 80'-100' MOLINE ELM

A remarkable new variety of exceptionally strong growth and large handsome deep grain foliage. Very desirable.

6 to 8 ft.....	\$1.25	\$10.00
8 to 10 ft., 1 to 1¼ in.	1.75	15.00

Ulmus parvifolia, 80'-100' CHINESE ELM

Beautiful, fast grower, hardy.

6 to 8 ft.....	\$1.25	\$10.00
8 to 10 ft., 1 to 1¼ in.	1.50	12.50
8 to 10 ft., 1½ to 1¾ in.	2.00	17.50

HEDGE PLANTS

BERBERIS—BARBERRY

Berberis thunbergii, 4'-5' JAPANESE BARBERRY

A splendid low hedge plant, or for massing; brilliant autumn coloring; scarlet berries.

	Each	Per 10	Per 100
9 to 12 in.....	\$0.12	\$1.00	\$8.00
12 to 15 in.....	.15	1.25	10.00
15 to 18 in.....	.20	1.50	12.50
18 to 24 in.....	.25	2.00	15.00

Figures at right of scientific name denote ultimate height.

MANHEIM, PENNSYLVANIA

LIGUSTRUM—PRIVET

Ligustrum ovalifolium, 9'-10'

CALIFORNIA PRIVET

The most popular hedge plant on account of its beauty, adaptability, and low cost.

To find the exact number wanted, measure the space where it is to be planted and multiply the number of feet by two. They should be planted 3 inches deeper than they stood in the nursery row. Set the plants 6 inches apart in the row. Dip the roots in water before planting. After plants are set, cut them down to 4 inches from the surface of the ground. This will cause a thick new growth to start and is very essential for a beautiful hedge.

When cutting, each time allow about 1 to 2 inches above where it was cut before, until you get the height desired.

Two-year—cut back and well branched. Will give immediate effect.

	Per 100	Per 1000
12 to 18 in.....	\$2.50	\$20.00
18 to 24 in.....	3.00	25.00
2 to 3 ft.....	3.50	30.00

Consult us for information regarding hedges, screens and windbreaks to be planted with our evergreens or flowering shrubs.

ROSES



The varieties we offer are very popular and are adapted to be most satisfactory and pleasing.

The potted plants can be set out late in the season, but we also offer for early orders only, the same quality field grown roses unpotted at the lower prices listed. Both kinds will bloom this year.



How To Grow Roses, by Pyle, McFarland, and Stevens. Full and practical information on every question on the growing of garden roses. Written from the life-time experience of three of our greatest growers. 45 varieties are illustrated in full color. The best book on roses ever published. 138 illustrations, 211 pages.....\$2.00

ROOT'S NURSERIES, INC.

EVERBLOOMING AND HYBRID TEA ROSES

Betty Uprichard. Brilliant copper-red buds and semi-double salmon-pink flowers stained with copper-pink on the outside.

Dame Edith Helen. The most striking pink rose of recent years. Enormous, very double, pure pink blooms, continually produced. Strong growth.

Duchess of Wellington. Intense saffron-yellow, stained rich crimson.

Etoile de Hollande. Brilliant red flowers of magnificent size. Very fragrant.

Frau Karl Druschki. Constant bloomer. Best white.



Gruss an Teplitz. Everblooming scarlet crimson. A strong grower. The best everbloomer of its color.

Jonkheer J. L. Mock. Outside of petals deep pink, inside silvery rose.

Lady Ashtown. Brilliant glossy pink, flowers of exquisite pointed shape.

Margaret McGredy. Brilliant red petals on hinges of deep gold. Buds upright. Seldom out of bloom.

Mme. Butterfly. Bright pink, apricot, and gold.

Mrs. Aaron Ward. Yellow, sometimes shaded salmon and rose.

Ophelia. Salmon-flesh, shaded rose. A rose that is admired by everyone.

Padre. Copper-scarlet, yellow at base of petals; semi-double.

Radiance. Lovely light silvery pink flowers, with beautiful suffusion of deeper color. It may be relied upon to produce flowers under all conditions.

Red Radiance. A deep red, with great globular flowers. Blooms until frost.

Rev. F. Page-Roberts. Golden yellow and cream in the inside of the flower, stained copper and dull red on the outside. Rapidly becoming one of the most popular Roses of America.

MANHEIM, PENNSYLVANIA

Souv. de Claudius Pernet. Color a decided and unstained sunflower yellow, even deeper toned at center. Will not fade. Flower form is large and full, the buds long and pointed. Vigorous grower.

Talisman. Brilliant orange-red buds, opening to a large fragrant high pointed bloom of glowing golden yellow, stained with copper red and orange-rose on inside of petals.

Ville de Paris. Round buds of clear yellow. The bloom is much like Radiance.

Willowmere. Shrimp-pink, wonderful long-pointed buds. The rose to plant where Los Angeles does not succeed.

Prices

PRICES.—Strong 2-yr. field-grown plants, potted in 6 in. pots, 75c. each; 5 for \$3.50; 10 for \$6.50. Dormant plants, 50c. each; 5 for \$2.25; 10 for \$4.00.

Hardy Climbing Roses

Climbing American Beauty. Crimson; like bush.

Climbing Lady Ashtown. Hardy climbing Hybrid Tea Rose with pointed blooms of vivid pink.

Dorothy Perkins. Small soft shell-pink, crinkly flowers.

Dr. W. Van Fleet. Rich shell pink.

Excelsa (Red Dorothy Perkins). Clear scarlet, similar to Dorothy Perkins.

La Reve. New yellow pillar rose of deep, unfading color. Beautiful sprays in great abundance.

Mme. Grégoire Staechelin. "The Spanish Beauty." Today's wonder rose. Delicious fragrance, a choice cut flower. Buds long-pointed, flowers large, semi-double. Buds maroon changing from carmine to pearly pink as petals unfold.

Paul's Scarlet Climber. Vivid scarlet.

Silver Moon. Favorite white climber; flowers semi-double, large, with brilliant yellow stamens.

Prices

PRICES.—Any of the above Ramblers and Climbers in 2-yr. No. 1 strong field-grown plants, potted in 6 in. pots, 75c. each; 5 for \$3.50. Dormant plants 50c. each; 5 for \$2.25.

Dwarf Polyantha or "Baby" Roses

Chatillon Rose. Vivid light salmon-pink, semi-double flowers in enormous heads. Lasts long. One of the finest.

Triomphe Orleanais. Finest of the crimson Polyanthas.

Prices

PRICES.—Strong 2-yr. plants in 6-in. pots, 75c. each; 5 for \$3.50; 10 for \$6.50. Dormant plants, 50c.; 5 for \$2.25; 10 for \$4.00.

CANNAS

Cannas for Color

For a flaming, gorgeous color effect, give us Cannas. They outshine most other plants, yet they are never gaudy. In beds they are extremely effective.

HOW TO MAKE A ROUND CANNA BED

Plant 1 Canna in the center, 6 in the first circle, 12 in the second circle, then 18, 24, etc., according to the size of the bed, with the circles 18 inches apart, and the plants in the circle 18 inches apart. A bed 4 feet in diameter takes 7 Cannas; a 7-foot bed, 19 Cannas; a 10-foot bed, 37 Cannas; a 16-foot bed, 91 Cannas.

The President. 4 ft. Far and away superior to any other scarlet Canna ever produced. This beauty, with its massive heads of glowing scarlet, is in a class by itself for brilliant effect and is used by practically every park superintendent who needs a vivid red in his plantings.

ROOT'S NURSERIES, INC.

King Humbert. 4 ft. Flower orange-scarlet, streaked crimson. Foliage ebony. Its unusually handsome foliage, which is equaled by no other variety, makes this Canna as popular as is the President for its gorgeous flowers.

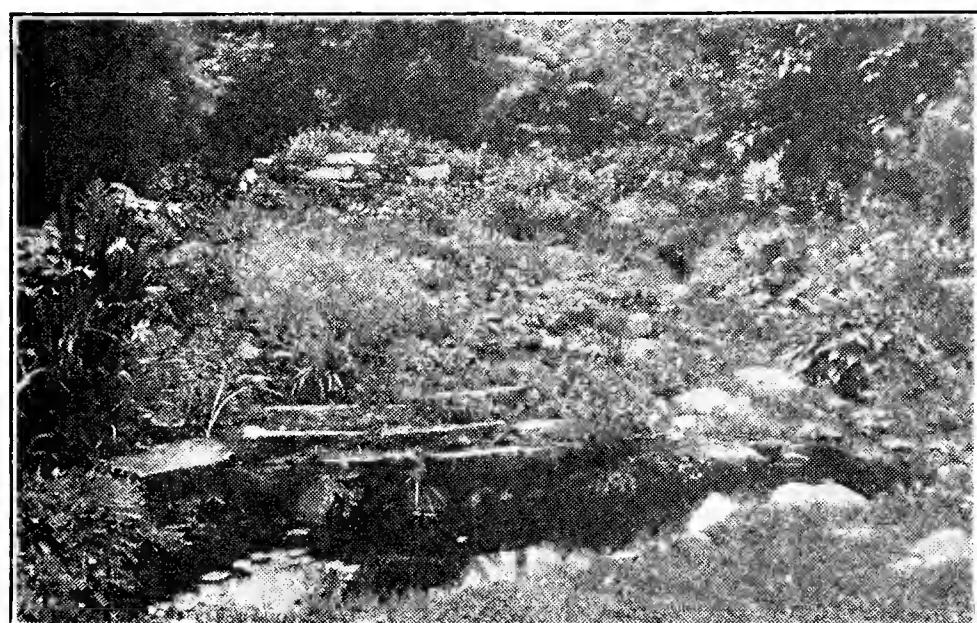
King Midas. 4 ft. Very large, beautifully formed, firm flowers of glittering golden yellow.

Victory. 3 ft. The throat of the flower is glowing apricot which shades to a suffusion of pinkish-buff or summer sunset tints over the petals, finally edging off to a distinct border of maize-yellow. Flowers are medium in size.

Canna Prices

Per 10 Per 100

Canna Prices.....	\$1.00	\$8.00
Potted Plants (ready May 1).....	1.50	12.50



A Rock Garden in its Proper Setting.

DWARF EVERGREENS TO BE USED INSIDE ROCK GARDEN

Dwarf Japanese Yew	Rock Cotoneaster
Mugho Pine	Sargent Juniper
Rose Daphne	

These should be kept pruned:

Amoena Azalea	Hinodegiri Azalea
Wintergreen Barberry	

Other varieties which are odd-shaped may be used. (We can sell these at lower prices.)

LARGER EVERGREENS FOR ROCK GARDEN BACKGROUND

There are a number of varieties that can be used. They should be plants that are not too symmetrically shaped. These can be sold at a discount from the prices we charge for perfect specimens.

DECIDUOUS TREES AND SHRUBS FOR ROCK GARDEN BACKGROUND

White Flowering Dogwood African Tamarix



Rock Gardens, by F. F. Rockwell. Shows just how you can build a rock garden yourself, on a small or large scale and at little expense. Describes the types of rock gardens, tells what soils, climates, and locations are best, how to construct, and what to plant for the effect you want. 31 illustrations, 86 pages.....\$1.00

MANHEIM, PENNSYLVANIA

HARDY PERENNIAL PLANTS

VARIETIES MARKED WITH (*)

ARE SUITABLE FOR ROCK GARDENS

**Alyssum saxatile compactum* (Rock Madwort)

DWARF GOLDENTUFT

Masses of bright yellow flowers in early spring. Per 3 Per 10
Excellent plant for the rockery or borders.....\$0.60 \$1.50

Anemone

ANEMONE

Pink or White.....\$0.60 \$1.50

**Aquilegia*

COLUMBINE

Named Varieties.....\$0.60 \$1.50

**Arabis alpina*, 4"-5"

ALPINE ROCKCRESS

White flowers; splendid for border or rockery; also cut
flowers.....\$0.60 \$1.50

Astilbe japonica

JAPANESE ASTILBE

Hybrid varieties of very vigorous growth, producing many-
branched, feathered heads of flowers in June and July. They
prefer a half-shady, moist position in any ordinary garden
soil.....\$1.50 \$4.00

**Campanula carpatica*

CARPATHIAN BELLFLOWER

A pretty species growing in compact tufts, not exceeding
8 inches in height, flowers clear blue, held erect on wiry
stems. It begins blooming in June, continuing until
October. As an edging for a hardy border or for the
rockery is unsurpassed.....\$0.60 \$1.50

**Cerastium tomentosum*, 8"-10"

SNOW-IN-SUMMER

Silver carpet foliage; white flowers. May...\$0.60 \$1.50

Chrysanthemum coccineum

PAINTED DAISY

Various colors.....\$0.60 \$1.50

Chrysanthemum maximum, 2'

SHASTA DAISY

White, July-September.....\$0.60 \$1.50

Coreopsis, 2'

COREOPSIS

Large, yellow flowers, fine for cutting.....\$0.45 \$1.00

Delphinium belladonna, 2½'

LARKSPUR

Light blue, June-October. They are our best blue cut
flower, are perfectly hardy, and established plants produce
a number of spikes, giving three crops during the
season.....\$0.60 \$1.50

Delphinium bellamomum

LARKSPUR

A dark blue of the type of Belladonna with the color of the
old Formosum variety, but not liable to mildew like the
latter and of stronger growth.....\$0.60 \$1.50

**Dianthus barbatus*, 1½'

SWEET-WILLIAM

Double flower, May-June.....\$0.45 \$1.00

Dianthus caryophyllus

(Hardy) CARNATION

Assorted colors.....\$0.75 \$2.00

**Dianthus plumarius*, 1'

GRASS PINK

Pink, purplish and white, fragrant flowers and on long
spikes. For border or rock garden.....\$0.45 \$1.00

Dicentra spectabilis, 2'

BLEEDING HEART

Pink and white, May-June.....\$1.00 \$3.00

**Dictamnus albus*, 2½'

GASPLANT

White, June-July. The Dictamnus is one of the most
satisfactory hardy plants in cultivation, both on ac-
count of splendid flowers and its rich, durable foliage.
3-yr.....\$1.25 \$3.00

**Dictamnus albus ruber*.

PURPLE GASPLANT

Rosy-purple, June-July.....\$1.25 \$3.00

Digitalis purpurea gloxiniaeflora, 3'-4'

GLOXINIA FOXGLOVE

\$0.60 \$1.50

Gaillardia

GAILLARDIA

Large-flowering.....\$0.60 \$1.50

Gypsophyla paniculata, 2'

BABY'S BREATH

Compact white, fine for cutting and drying..\$0.45 \$1.00

ROOT'S NURSERIES, INC.

<i>Hibiscus</i> , 4'	MALLOW MARVELS		
A robust type of upright habit, producing an abundance of flowers of enormous size in all the richest shades of crimson,			
Per 3	Per 10		
Pink and white.....	\$0.75	\$2.00	
<i>*Iberis gibraltarica</i> , 1'	GIBRALTAR CANDYTUFT		
Reddish purple flowers; fine for rockery.....	\$0.60	\$1.50	
<i>Iris germanica</i> , 1½'-3'	GERMAN IRIS		
Assorted colors.....	\$0.30	\$0.75	
<i>Iris kaempferi</i> , 1½'-3'	JAPANESE IRIS		
Assorted colors.....	\$0.90	\$2.00	
<i>*Iris pumila</i>	DWARF IRIS		
Dark blue.....	\$0.45	\$1.00	
<i>Kniphofia pfitzeri</i> (<i>Tritoma</i>), 2'	BONFIRE TORCHLILY		
Rush-like foliage supports smooth thick flower stalks a yard long, with a single fiery cone at the top....	\$0.75	\$2.00	
<i>Lespedeza formosa</i> , 3'-4'	PURPLE BUSH CLOVER		
Rosy purple flower conspicuous in September. Attractive shrub.....	\$1.50	\$3.00	
<i>Lychnis Chalcedonica</i> , 3'	MALTESE CROSS		
Heads of vivid scarlet flowers, blooming a long time. One of the brightest plants in the hardy border.....	\$0.60	\$1.50	
<i>Myosotis scorpioides</i>	TRUE FORGET-ME-NOT		
	\$0.75	\$2.00	
<i>Paeonia</i>	PEONY		
<i>Paeonia Edulis Superba</i> . Soft pink, early.			
3 to 5 eyes.....	\$1.25	\$4.00	
<i>Paeonia Felix Crousse</i> . Best brilliant red, midseason.			
3 to 5 eyes.....	\$1.75	\$5.00	
<i>Paeonia Festiva Maxima</i> . The ideal white, carmine tipped.			
3 to 5 eyes.....	\$1.00	\$2.50	
<i>Paeonia Francois Ortegat</i> . Semi-double, purplish-crimson.			
3 to 5 eyes.....	\$1.50	\$4.00	
<i>Paeonia Officinalis Rubra</i> fl. pl. Very early double red.			
3 to 5 eyes.....	\$2.50	\$7.00	
<i>Papaver Orientale</i>	ORIENTAL POPPY		
Deep crimson, with black blotch on each petal.	\$0.75	\$2.00	
<i>Phlox decussata</i>	HARDY PHLOX		
Perennial Phloxes succeed in almost any soil enriched with manure in the spring, and in hot weather an occasional soaking of water. If the first spikes of bloom are removed as soon as over, they will produce a second supply of flowers, continuing the display until late in autumn.			
<i>Phlox decussata Beacon</i> . Brilliant cherry-red.	\$0.60	\$1.50	
<i>Phlox decussata Elizabeth Campbell</i> . Bright salmon-pink, with lighter shadings and dark red eye; one of the handsomest and most attractive.....	\$0.90	\$2.50	
<i>Phlox decussata Mrs. Jenkins</i> . Pure white.	\$0.60	\$1.50	
<i>Phlox decussata Thor</i> . A beautiful lively shade of deep salmon-pink, suffused and overlaid with a scarlet glow; has aniline-red eye.....	\$0.60	\$1.50	
<i>Phlox Suffruticosa Miss Lingard</i> . The best phlox in cultivation. It produces immense heads of beautiful white flowers in June and blooms again in September and October.....	\$0.60	\$1.50	
<i>Phlox subulata</i>	MOSS PHLOX		
<i>*Phlox subulata Alba</i> . Pure white.....	\$0.60	\$1.50	
<i>*Phlox subulata Fairy</i> . Light lilac.....	.60	1.50	
<i>*Phlox subulata Rubra</i>60	1.50	
<i>Platycodon grandiflorum</i> .	BALLOONFLOWER		
18 in. Blue, June to October. Large, showy, deep blue flowers, good for rock garden and border.....	\$0.60	\$1.50	
<i>*Primula</i>	PRIMROSE		
Splendid little plants for naturalizing near shrubs, in the border, or shaded nooks on the rockery.			
Named varieties.....	\$0.90	\$2.50	

MANHEIM, PENNSYLVANIA



Part of our service, quick delivery of freshly dug stock.

* <i>Sedum</i>	STONE CROP
Among the most "rocky" of all rock plants, successful everywhere if provided with sandy soil and full sun.	
	Per 3 Per 10
Named varieties.....	\$0.60 \$1.50
* <i>Viola Admiratio</i> n	VARIEGATED TUFTED PANSY
Dark blue. The best edging plant for the hardy border or garden. Blooms continuously from May until October.....	\$0.60 \$1.50

ORNAMENTAL CLIMBING VINES

<i>Ampelopsis quinquefolia</i> , 30'-50'	VIRGINIA CREEPER
Valuable for rich, fiery autumn coloring. Quick grower.	
	Each Per 10
2 to 3 ft.....	\$0.25 \$2.00
<i>Ampelopsis tricuspidata</i> , 40'-50'	BOSTON IVY
Brilliant autumn coloring, blue berries, turning black; closely self clinging. Also called Japanese Creeper.	
18 to 24 in.....	\$0.50 \$4.50
<i>Aristolochia siphon</i>	DUTCHMAN'S PIPE
Flowers are purple, of quaint pipe shape. Large heart-shaped leaves. Good for porches.	
2-yr., No. 1.....	\$0.80 \$7.00
<i>Bignonia radicans</i> , 20'-30'	TRUMPET CREEPER
Showy trumpet-shaped flowers, scarlet and orange, July.	
2 yr., No. 1.....	\$0.40 \$3.00
<i>Celastrus scandens</i> , 20'-25'	AMERICAN BITTERSWEET
Most adaptable vine with orange and red berries that retain color when cut and dried.	
2-yr., No. 1.....	\$0.50 \$4.00
<i>Clematis</i> , Large Flowered Varieties, 10'-15'	CLEMATIS
Grand for pillars and trellises, pegged down for bedding and for running over rockwork, old trees and stumps. They delight in rich soil, and sun.	
<i>Clematis Henryi</i>	HENRY CLEMATIS
Creamy white.....	\$0.75 \$7.00
<i>Clematis Jackmani</i>	JACKMAN CLEMATIS
Velvety, violet-purple.....	\$0.75 \$7.00
<i>Clematis Mad. Ed. Andre</i>	MAD. ED. ANDRE CLEMATIS
A distinct crimson-red.....	\$0.75 \$7.00
<i>Clematis paniculata</i> , 20'-25'	SWEET AUTUMN CLEMATIS
The flowers are of medium size, fragrant, pure white, borne in immense sheets in September.....	\$0.35 \$3.00
<i>Euonymus radicans variegatus</i> , 12"-15"	
	VARIEGATED LEAF WINTERCREEPER
Leaves veined and marked yellowish white and pink. Clinging vine.	
12 to 15 in.....	\$0.50 \$4.00

ROOT'S NURSERIES, INC.

Euonymus radicans vegetus, 3'-4'

BIGLEAF WINTERCREEPER

Bushy, interesting growth. Leaves round, dull green. Bright scarlet fruits, freely produced. Handsome among evergreens. Also called Evergreen Bittersweet. Each Per 10
 9 to 12 in..... \$0.50 \$4.00
 12 to 15 in..... .60 5.00

Hedera helix, 20'-50'

ENGLISH IVY

Good ground cover in shady locations. An ideal wall cover.
 3-in. pots..... \$0.25 \$2.00
 4-in. pots..... .50 4.00

Lonicera japonica halliana, 15'-25'

HALL JAPANESE HONEYSUCKLE

Grows rampantly. Blooms freely, deliciously fragrant.
 2-yr., No. 1..... \$0.35 \$3.00

Polygonum auberti

CHINA FLEECEVINE

Climbing plant of vigorous growth attaining a height of 25 feet and producing through summer and fall great foamy sprays of white flowers.

2-yr., No. 1..... \$0.75 \$7.00

Wisteria sinensis, 40'-50'

CHINESE WISTERIA

Good for pergolas, porches and trellises; dense drooping clusters of pea-shaped purple-blue flowers.

2 yr. Grafts..... \$0.75 \$7.00

Wisteria sinensis alba, 40'-50'

CHINESE WHITE WISTERIA

2 yr. Grafts..... \$0.75 \$7.00

APPLES

Apple trees should be set 32 to 40 feet apart.

Fillers. Most commercial orchards are now planted with standard varieties, 40 feet apart each way. Quick, upright growing, early maturing varieties are used as fillers, planting between standards to make 20 ft. apart; fillers to be removed when the standard trees require the room (12 to 18 years). This requires 28 standard and 82 fillers to the acre. **We recommend for fillers:** Yellow Transparent, Oldenburg, Grimes Golden, McIntosh and Wealthy, or peach trees.

PRICE OF APPLES—2-YEAR

	Per	Per	Per
Each	10	100	1000
5 to 6 ft., $\frac{11}{16}$ in. cal. and up....	\$0.50	\$4.00	\$25.00
4 to 5 ft., $\frac{9}{16}$ to $\frac{11}{16}$ in. cal.....	.40	3.00	20.00
3 to 4 ft., $\frac{7}{16}$ to $\frac{9}{16}$ in. cal.....	.35	2.50	15.00
			100.00

PRICE OF APPLES—1-YEAR

	Per	Per	Per
Each	10	100	1000
4 to 5 ft.....	\$0.35	\$2.50	\$20.00
3 to 4 ft.....	.30	2.00	15.00
2 to 3 ft.....	.20	1.50	12.50
			115.00

SUMMER APPLES

Benoni. Attractive, red, best eating apple of its season. Early bearer and very productive.

Early Harvest. Medium, pale yellow, tender, juicy.

Oldenburg (Duchess of Oldenburg). Good size, yellow, streaked red, juicy, sub-acid, productive.

Summer Rambo. Very large; flesh yellow, firm, tender, very juicy, mild sub-acid.

Red Astrachan. Large, beautiful deep crimson. A favorite eating and cooking apple.

Yellow Transparent. Earliest and best; white, tender, juicy, sprightly, sub-acid. Grows rapidly, bears young, and makes a profitable "filler."

MANHEIM, PENNSYLVANIA

AUTUMN APPLES

Gravenstein. Large striped, fine quality, one of the best fall sorts.

Maiden Blush. Large, beautiful, blush cheek.

Smokehouse. An old favorite, originated in Lancaster Co., Pa.

Wealthy. Medium size, smooth, round, deep red; handsome and of fine quality.

WINTER APPLES

Baldwin. Red, large, fine quality, tree vigorous.

Winter Banana. Size large, golden yellow with bright crimson red.

Cortland. This is a promising new variety originated at the Horticultural Experimental Farms, Geneva, N. Y. The fruit is medium to large in size, of a bright red color. Flesh is pure white.

Delicious. Red and yellow; fine grained, and quite juicy; flavor slightly acid, but very good.

Falawater (sometimes called **Pound Apple**). Large; yellowish green fruit.

Grimes Golden. No orchard complete without it. Yellow, best quality and productive. For either home or market for this season there is nothing better.

Hubbardston. Large, red, striped, tender, juicy.

Jonathan. Medium; red, extra quality.

McIntosh. Large, deep crimson, highest quality, juicy, sub-acid.

Paradise Winter Sweet. Large; creamy, rosy-cheeked.

Rome Beauty. Large, yellow, shaded red; tender, juicy, sub-acid.

Stark. Large, striped light and red, juicy, mild, sub-acid. An early and abundant bearer, good keeper.

Stayman Winesap. Of the several important descendants of Winesap, this variety is leaping into prominence as a splendid sort for the home or commercial orchard. The tree is a sturdy grower and a very heavy producer. It is adapted to a wide range of soils and climates, thriving almost wherever planted. It runs to large sizes. The fruit is of deep red color, with firm flesh, tender, juicy, and the same rich flavor of the parent. We strongly recommend this variety for the home or commercial orchard.

York Imperial. Medium to large; yellow, shaded red; firm, juicy, sub-acid.

CRAB APPLES

Hyslop. Large; deep crimson; one of the most beautiful; very popular.

Transcendent. For many years the most popular crab apple. Fruit about an inch in diameter, yellow, with red cheek.

PEACHES

We are offering only a limited number of varieties, ones that you can depend on giving you a good crop of fruit. We do not think it worth while to propagate a large number of varieties, when a few of the best will make more money for our customers. The peach crop is quite sure if you give your trees proper attention.

ROOT'S NURSERIES, INC.

PRICE OF PEACHES

	Each	Per 10	Per 100	Per 1000
5 to 7 ft., $\frac{11}{16}$ in. cal. and up.....	\$0.50	\$4.00		
4 $\frac{1}{2}$ to 6 ft., $\frac{9}{16}$ to $\frac{11}{16}$ in. cal.....	.40	3.00	\$17.50	\$150.00
4 to 5 ft., $\frac{7}{16}$ to $\frac{9}{16}$ in. cal.....	.30	2.00	15.00	120.00
3 to 4 ft., $\frac{5}{16}$ to $\frac{7}{16}$ in. cal.....	.20	1.50	10.00	80.00
2 to 3 ft.....	.15	1.25	8.00	60.00

ARRANGED IN ORDER OF RIPENING

Greensboro. The very best extra early commercial sort.

Hardy and productive, fruit large and tree healthy. Color white with crimson cheek.

Carman. White with red blush. Carman is extra hardy, bears every year, and when it fails all else fails too. Tree a very robust grower and produces heavily.

Golden Jubilee. Developed and introduced by the New Jersey Experimental Station—A high quality, Early, Yellow, Freestone Peach.

Rochester (Free). Large yellow and red Peach. Flesh yellow, of fine quality and exquisite flavor.

Hiley (Early Belle). The earliest commercial white free-stone peach. It resembles Belle of Georgia, but in quality is superior to most of its white-fleshed competitors. The pretty red cheek and good shipping qualities make it very popular for early market.

Champion. Large variety, creamy white, red cheek, sweet, rich and juicy. Hardy and productive.

Belle (Belle of Georgia). Very large; skin white with red cheek; flesh white, firm and of excellent flavor. Tree a rapid grower, very prolific.

Capt. Ede. A handsome yellow peach of excellent quality; hardy in bud and blossom.

J. H. Hale. Probably no new peach has ever been introduced claiming to be so much superior in all ways. It averages one-third to one-half larger than Elberta, ripens about five days earlier and is much superior in flavor. Color a beautiful golden-yellow with deep carmine blush.

Elberta. Large, yellow, with red cheek; flesh yellow, firm, juicy, of high quality. Exceedingly prolific, sure bearer and hardy. The leading market variety.

Late Crawford. A superb, large, yellow peach.

Mathews (Dr. Funk's strain). Very similar to Elberta but of better quality.

Old Mixon Free. Large, pale yellow, deep red cheek, white flesh, tender, rich, good.

Stump. Large, white, bright red cheek.

Salway. A late yellow variety. Latter part of September.

Iron Mountain. Ripens September 15 to October 1. Fruit is of large size; color, white.

A P R I C O T S

	Each	Per 10
4 to 6 ft., $\frac{9}{16}$ in. cal. and up.....	\$0.75	\$7.00
3 to 4 ft., $\frac{7}{16}$ to $\frac{9}{16}$ in. cal.....	.60	5.00

Early Golden. Small, pale orange, juicy and sweet.

Dallas. Fruit large, round, early, deep yellow with a fine blush; flesh yellow, firm, juicy and excellent. Tree hardy, a good grower.

Royal. Large, yellow, juicy, rich and delicious; a very fine variety.

C H E R R I E S

	Each	Per 10
5 to 7 ft., $\frac{11}{16}$ in. cal. and up.....	\$0.65	\$6.00
4 to 6 ft., $\frac{9}{16}$ to $\frac{11}{16}$ in. cal.....	.55	5.00
3 to 4 ft., $\frac{7}{16}$ to $\frac{9}{16}$ in. cal.....	.45	4.00

MANHEIM, PENNSYLVANIA

SWEET CHERRIES

Bing. Very large, dark brown—almost black; flesh firm, sweet, rich and delicious. One of the most profitable sorts. July.

Black Tartarian. Very large, black, juicy. Last of June.

Gov. Wood. Large, light red, juicy, rich, delicious. Tree healthy and productive. June.

Napoleon. Large, pale yellow or red; firm, juicy, sweet and productive. July.

Schmidt. Immense size, deep black; flesh dark, tender, very juicy, fine flavor; productive. July.

Windsor. Fruit large, liver-colored, distinct; flesh remarkably firm and of fine quality. Tree hardy and prolific. A valuable late variety. July.

Yellow Spanish. Large, yellow and red. June.

SOUR CHERRIES

Early Richmond. Medium, dark red, melting, juicy, sprightly, rich acid.

English Morello. Fair size, blackish red, rich acid.

Montmorency. Large, deep cherry-red, very tender and juicy. It is the best variety for home and market. It ripens at the close of the Early Richmond season, and is of better size than that variety; more meaty and of richer flavor.

P E A R S

	Each	Per 10
5 to 7 ft., $\frac{11}{16}$ in. cal., and up.....	\$0.65	\$6.00
4 to 6 ft., $\frac{9}{16}$ to $\frac{11}{16}$ in. cal.....	.55	5.00
Dwarf Pear, 4 to 5 ft., $\frac{5}{8}$ in. cal. and up.....	.55	5.00

Bartlett. Season last of August to September 15th. Good strong grower, flesh is white, fine grained, luscious, large and buttery, has a rich melting flavor and very sweet.

Clapp's Favorite. Summer. Fruit large, yellow lemon color, spotted with brown dots; flesh fine, rich and sweet. A very good one.

Duchesse. Very large, buttery, rich, juicy, excellent. It succeeds to perfection and is the most popular market variety as a dwarf. Oct. and Nov.

Kieffer. Its large size, handsome appearance, and remarkable keeping and shipping qualities make it very profitable for market. Oct. and Nov.

Seckel. Small; skin rich yellowish brown when fully ripe, with deep brownish red cheek; flesh very fine-grained, sweet, exceedingly juicy, melting, buttery; one of the richest and highest flavored pears known. Sept. and Oct.

Sheldon. A large, round, russet and red pear of very fine quality; melting, rich, delicious. Tree vigorous, erect, handsome; bears well and should be more largely planted. October.

P L U M S

	Each	Per 10
5 to 7 ft., $\frac{11}{16}$ in. cal. and up.....	\$0.65	\$6.00
4 to 6 ft., $\frac{9}{16}$ to $\frac{11}{16}$ in. cal.....	.55	5.00
3 to 4 ft., $\frac{7}{16}$ to $\frac{9}{16}$ in. cal.....	.45	4.00

Abundance. One of the oldest and best varieties; hardy, productive. Fruit large, lemon yellow, with heavy bloom; good quality. August.

Burbank. Most profitable among growers for market. Ripens 10 days after Abundance. Tree hardy.

ROOT'S NURSERIES, INC.

October Purple. A strong, vigorous grower, hardy, productive, of good quality, a large, round, late purple plum, especially recommended for late market.

Red June. One of the vigorous, upright growers; productive; fair size, vermillion red; pleasant quality. Ripens a week before Abundance. August.

Climax. One of the best of the large, early sweet plums, ripening ahead of other varieties, which makes it a very valuable market sort. July.

Gold. Large, oval, bright yellow; rich, juicy, fine quality. A good grower.

Bradshaw. A very large and fine early plum, dark violet-red, juicy and good. Very productive; valuable for market. The tree is very hardy and vigorous. Middle of August.

German Prune. Large, dark purple, sweet, good. One of the most popular for canning, because of its sweetness. September.

Italian Prune. Good size, purple, juicy, delicious, fine for drying. September.

Imperial Gage. Large, pale green, juicy, sweet, rich, and excellent. August.

Satsuma (Blood). Large, globular, with sharp point. Color, purple and red with blue bloom; flesh firm, juicy, dark red or blood color, fine quality; pit very small. Hardy and vigorous grower. August.

QUINCES

	Each	Per 10
4 to 5 ft., $\frac{5}{8}$ in. cal. and up.....	\$0.65	\$6.00
3 to 4 ft., $\frac{1}{2}$ to $\frac{5}{8}$ in. cal.....	.55	5.00

Orange. Fruit large, bright yellow, of excellent quality.

Champion. A prolific and constant bearer of oval fruit, averaging larger than Orange and ripening later. Long keeper.

Meech Prolific. A vigorous grower and immensely productive of large, orange-yellow fruit of delightful flavor and fine cooking quality.

SMALL FRUITS

GRAPES (2 years)

	Each	Per 10	Per 100
Brighton. Red, high quality, large.....	\$0.20	\$1.75	\$15.00
Concord. The leading black variety... .20	1.75	10.00	
Moore's Early. Good, early, black.... .20	1.75	15.00	
Niagara. The standard white grape.... .20	1.75	12.00	
Worden. Earlier than Concord, sweeter. .20	1.75	12.00	
Caco. New, red..... .50	4.00	30.00	

ASPARAGUS

Washington. The most popular

variety.

Per 10 Per 100 Per 1000

2-year..... \$0.25 \$1.25 \$8.00

STRAWBERRIES

Per
100
Per
1000

Premier. One of the best, early, productive...	\$1.00	\$4.50
Haverland. Light color, long berry.....	1.00	4.50
Big Joe. Large, medium late.....	1.00	4.50
Chesapeake Large, late, good quality.....	1.00	4.50
Other varieties available. Special prices in large quantities.		

MANHEIM, PENNSYLVANIA

RASPBERRIES

		Per 10	Per 100
Cuthbert.	Standard red.....	\$0.50	\$3.00
Latham.	New red.....	.50	3.00
St. Regis.	Everbearing red.....	.50	3.00
Cumberland.	Very profitable, black.....	.50	3.00
Plum Farmer.	Black.....	.50	3.00

BLACKBERRIES

		Per 10	Per 100
Eldorado.	Hardy, vigorous, productive.....	\$0.75	\$4.00
Blowers.	Splendid new sort.....	.75	4.00

CURRANTS (2 years)

		Each	Per 10	Per 100
Cherry	Large berries, short bunch....	\$0.20	\$1.75	\$12.00
Fays.	Old leading market variety.....	.20	1.75	12.00
Wilder.	Better than Fays.....	.20	1.75	12.00
White Grape.	Large, yellowish white..	.20	1.75	12.00

GOOSEBERRIES (2 years)

		Each	Per 10	Per 100
Downing.	Large, pale green, very good..	\$0.20	\$1.75	\$12.00
Houghton.	Medium, pale red, sweet....	.20	1.75	12.00

RHUBARB

		Each	Per 10	Per 100
Linnaeus.	Old reliable kind.....	\$0.15	\$1.00	\$8.00

OLD ENGLISH LAWN SEED

MAKES BETTER LAWNS!

You will agree that a lawn of rich velvet green adds much to the beauty of your home. There is something inviting in a stretch of even green.

You can enjoy the charm of such a lawn by using "Old English Lawn Seed" and giving it the proper attention. This mixture has been used for twenty years on many fine estates, golf courses and on government and city grounds.

We heartily recommend it for your use.

Prices

Old English Lawn Seed

1-lb.....	\$0.40
5-lb.....	1.75
20-lb.....	6.00

"For your protection this Seal appears on every Bag and Package"



Shady Spot	
1-lb.....	\$0.50
10-lb.....	4.00

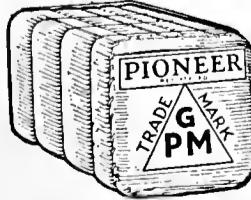
GARDEN SUPPLIES

PEAT MOSS

Valuable for mulching and mixing with soil in ornamental plantings, gardens, lawns, etc. GPM.

Bale covers 240 sq. ft. one inch deep.

This brand assures you best quality.



1 Bushel.....	\$0.50
1/2 Bale.....	1.75
1 Bale.....	3.25
5 Bales.....	\$3.00 per bale

Larger quantities, prices on application.



Pomo-Green

With Nicotine



The Leaf Green All-In-One Dust or Spray

Used as a dust or spray to control insects and diseases.
Inconspicuous on foliage. Fine for roses.

PRICES

1 lb. can.....	\$0.75
5 lb. can.....	3.00

Pomo-Green without Nicotine

PRICE

5 lb. carton.....	\$1.75
-------------------	--------

SOIL

Carefully selected top-soil, rich in plant food.

100 lbs.....	\$0.50
500 lbs.....	2.00
1000 lbs.....	3.50
2000 lbs.....	6.00

CUT TOBACCO STEMS

Fine for mulching roses, etc. Will help to keep insects away from plants. Very beneficial to lawns.

PRICE

100 lbs.....	\$1.75
2000 lbs.....	25.00

TREE SURGERY DEPARTMENT

There has been an increasing demand for a service to our clients whereby their mature trees might be given the proper attention and treatment for preservation. Trees on lawns and under modern conditions are deprived of many of the necessities supplied by nature in forests, such as abundant plant food, moisture, proper soil conditions, etc. All of this tends to lessen the resistance of the tree to disease and pest damage, unless properly cared for.

An inspection and diagnosis by our trained Tree Surgeon will involve no cost or obligation.

This service includes pruning, cavity work, bracing, feeding, etc.



You are invited to visit our nurseries, and select your stock before it is dug.

BloomAid

For Flowers, Shrubs, Vegetables

BloomAid is *easy to use*, indoors or out. A tablet or two, or a spoonful of liquid BloomAid in a glass of water—either is enough for a potted plant, now and then. For window boxes, porch boxes, and the flats where the seedlings grow, use granulated BloomAid from a shaker-top pound can or by the spoonful from a five-pound can. Outdoors, in the beds and among the shrubbery and around the hedge, use granulated BloomAid from bags. Full directions with every package.



Prices

Tablet Form
Box of 125 Tablets \$.25

Liquid Form
8-oz. bottle..... .50

Pulverized Form:

1-lb. can.....	.25
5-lb. can.....	.50
10-lb. bag.....	.75
25-lb. bag.....	1.50
50-lb. bag.....	2.50
100-lb. bag.....	4.00

V.C. Fairway GRASS FOOD

Feed your lawn with a clean, rich food that the grass will relish and that neither you nor your neighbors will notice. Feed it V-C Fairway, then watch the turf *grow fast*—thick, green and velvety. Anybody can do the work. V-C Fairway is a dry and granulated powder, ready for use, in bags, easily handled. Carries no weed seeds, no insect pests, no plant diseases. Moderately priced.



Prices

10-lb. Bag (enough for
500 sq. ft.) \$.75

25-lb. Bag (enough for
1,250 sq. ft.) 1.50

50-lb. Bag (enough for
2,500 sq. ft.) 2.50

100-lb. Bag (enough for
5,000 sq. ft.) 4.00

ROOT'S NURSERIES, INC.

INSTRUCTIONS TO PURCHASERS

How to Figure Your Order. One to four trees or plants of one variety sold at the each rate; 5 to 25 of one variety at the ten rate; 25 to 250 of one variety at the 100 rate; 250 or more at the 1000 rate.

Orders. Orders should be sent in just as soon as possible after receiving catalog. By placing orders early you are more certain of getting the varieties wanted, as late in the season we are often sold out of some of the varieties. If ordered early we can reserve the stock until you want it shipped.

Shipping. We have the Pennsylvania and Reading Railroads and the Lancaster Trolley system, and can ship in any direction with the probability of prompt arrival at destination. All shipments travel at the cost and risk of the purchaser.

Truck Deliveries. Truck load orders will be delivered free, reasonable distances; long hauls and smaller orders delivered by special arrangement. We are well equipped to give good truck service.

Guarantee. We guarantee all stock to be strictly first class and true to name and will upon proper proof refund the purchase price, or replace any stock which proves otherwise. It is understood and agreed that we will not be held responsible for any greater sum than the cost of the stock, should any prove untrue. We strive to avoid mistakes and believe that we are as exact as any in the business.

Our nurseries are inspected every year and every shipment will be accompanied by a Certificate of the State Examiner.

Replacements. We guarantee all stock we sell to be strictly first class and TRUE TO NAME, dug and packed properly for shipment. We do not charge a price for a tree that, should it die, we could replace it and then still make a profit. Stock often perishes when it is not properly planted and cultivated; also the severe cold and heavy storms of Winter and droughts of Spring and Summer, which are liable to occur, will sometimes cause the best of stock to perish, which is no fault of ours.

It is impossible for us to guarantee trees and plants to live, as this altogether depends on weather conditions and how stock is planted and cared for after planting. The conditions which prevail after stock leaves our hands are such that it is just as impractical for a Nurseryman to guarantee a tree or plant to live as it would be for your best neighbor to sell you a horse or other live stock and guarantee it to live. We can only guarantee to send you good stock up to grade represented, full of life and true to name.

Terms Cash, except when expressly agreed otherwise.

Substitution. When sold out of a variety of trees or plants we frankly say so, and when you allow us to substitute we will send a variety as good or better and similar to the one ordered. As we know the many varieties, our substitution, if any, will be of advantage. Late in the season we are sometimes sold out of some varieties of stock; thus when sending your order it is to your advantage to say whether we may substitute or not, that we may get the order off promptly, before the season is too far advanced for successful planting. If you do not wish us to exercise this right, please mark your order sheet plainly NO SUBSTITUTION.

Prices. The prices quoted in this catalog are F. O. B. Nurseries, except where otherwise noted.

We do not run a regular agency, but some of our stock is sold to dealers, florists and agents, and we are not responsible for their prices nor for any promises made other than those found in our "Instruction to Purchasers."

ROOT'S NURSERIES, INC.

Phone, Landisville 163-R-2

Manheim, Pa.

When ordering use handy Env-O-Blank. No postage required.

MANHEIM, PENNSYLVANIA

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A cozy nook —
China Fleecevine
in background.
Left to right:
Myrtle Kreider, J.
Clyde Root, Elvin
Kreider and
Marian H. Root.

SUCCESSFUL PLANTING AND CARE OF STOCK

CARE

The bundles should be opened immediately, the roots dipped in water, then heeled in moist ground so that the mellow earth will come in contact with the roots and thoroughly protect them from the air, having the earth tramped solid about them.

When ready to plant, take up only a few at a time, puddle the roots and do not allow them to lie exposed to the sun or air.

The ground should be carefully prepared by deep plowing and firming down with a disc and harrow.

PLANTING

The holes for planting must be large enough to receive the roots freely, without cramping or bending them from their natural position. All broken or mutilated portions of the roots must be cut off so as to leave the ends smooth and sound. All trees should be planted two or three inches deeper than they stood in the nursery row; *pack the soil very firmly about the roots by tamping with the feet or post tamper*, being careful not to bark or break the roots. Leave three inches of the surface soil loose to serve as a mulch. If the ground is very dry, apply one to two pails of water before this soil mulch is in place, and after the water has soaked away it can then be placed over the moist soil.

NUMBER OF TREES OR PLANTS TO THE ACRE

40 feet apart each way.....	28
30 feet apart each way.....	48
20 feet apart each way.....	110
18 feet apart each way.....	135
15 feet apart each way.....	205
12 feet apart each way.....	300
10 feet apart each way.....	435
8 feet apart each way.....	680
6 feet apart each way.....	1,210
5 feet apart each way.....	1,745
4 feet apart each way.....	2,725
3 feet apart each way.....	4,840

Rule—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant, which, divided into the number of square feet in an acre (43,560), will give the number of plants or trees to the acre.

SUITABLE DISTANCE FOR PLANTING

Apples—30 to 40 feet apart each way.

Standard Pears and Cherries—20 feet apart each way.

Plums, Peaches and Apricots—16 to 18 feet apart each way.

Dwarf Pears and Quinces—10 to 12 feet apart each way.

Grapes—rows of 10 to 16 feet apart; 7 to 10 feet in rows.

Currants and Gooseberries—4 feet apart.

Raspberries and Blackberries—3 to 4 by 5 to 7 feet.

Strawberries, for field culture—1 by 3 to $3\frac{1}{2}$ feet.

Strawberries, for garden culture—1 to 2 feet apart.

Asparagus, for field culture—18 to 24 inches by $3\frac{1}{2}$ to 4 feet.

Asparagus, for garden culture—18 to 24 inches apart each way.

**ROOT'S NURSERIES
INC.**

OUR 39th YEAR